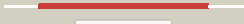



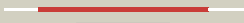


















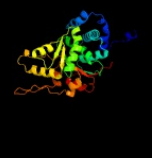
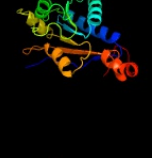



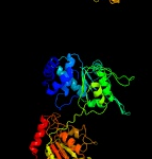

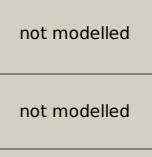


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1821_(secA2)_2066464_2068890
Date	Fri Aug 2 13:30:43 BST 2019
Unique Job ID	04b218e1798ef15f

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2ipcB_	 Alignment		100.0	41	PDB header: transport protein Chain: B: PDB Molecule: preprotein translocase seca subunit; PDBTitle: crystal structure of the translocation atpase seca from thermus2 thermophilus reveals a parallel, head-to-head dimer
2	c1nl3B_	 Alignment		100.0	39	PDB header: protein transport Chain: B: PDB Molecule: preprotein translocase seca 1 subunit; PDBTitle: crystal structure of the seca protein translocation atpase2 from mycobacterium tuberculosis in apo form
3	c2vdaA_	 Alignment		100.0	39	PDB header: protein transport Chain: A: PDB Molecule: translocase subunit seca; PDBTitle: solution structure of the seca-signal peptide complex
4	c3juxA_	 Alignment		100.0	38	PDB header: protein transport Chain: A: PDB Molecule: protein translocase subunit seca; PDBTitle: structure of the translocation atpase seca from thermotoga2 maritima
5	c3dinB_	 Alignment		100.0	38	PDB header: membrane protein, protein transport Chain: B: PDB Molecule: protein translocase subunit seca; PDBTitle: crystal structure of the protein-translocation complex formed by the2 secy channel and the seca atpase
6	c4uaqA_	 Alignment		100.0	98	PDB header: protein transport Chain: A: PDB Molecule: protein translocase subunit seca 2; PDBTitle: crystal structure of the accessory translocation atpase, seca2, from2 mycobacterium tuberculosis
7	c1tf2A_	 Alignment		100.0	37	PDB header: protein transport Chain: A: PDB Molecule: preprotein translocase seca subunit; PDBTitle: crystal structure of seca:adp in an open conformation from2 bacillus subtilis
8	c3dl8B_	 Alignment		100.0	38	PDB header: protein transport Chain: B: PDB Molecule: protein translocase subunit seca; PDBTitle: structure of the complex of aquifex aeolicus secyeg and bacillus2 subtilis seca
9	c2fsgB_	 Alignment		100.0	37	PDB header: protein transport Chain: B: PDB Molecule: preprotein translocase seca subunit; PDBTitle: complex seca:atp from escherichia coli
10	c2fsgA_	 Alignment		100.0	40	PDB header: protein transport Chain: A: PDB Molecule: preprotein translocase seca subunit; PDBTitle: complex seca:atp from escherichia coli
11	d1nka3	 Alignment		100.0	43	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Tandem AAA-ATPase domain

12	c3bxzA	Alignment		100.0	48	PDB header: transport protein Chain: A: PDB Molecule: preprotein translocase subunit seca; PDBTitle: crystal structure of the isolated dead motor domains from escherichia2 coli seca
13	d1tf5a3	Alignment		100.0	42	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Tandem AAA-ATPase domain
14	d1nkt4	Alignment		100.0	51	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Tandem AAA-ATPase domain
15	d1tf5a2	Alignment		100.0	25	Fold: Helical scaffold and wing domains of SecA Superfamily: Helical scaffold and wing domains of SecA Family: Helical scaffold and wing domains of SecA
16	d1nkt2	Alignment		100.0	26	Fold: Helical scaffold and wing domains of SecA Superfamily: Helical scaffold and wing domains of SecA Family: Helical scaffold and wing domains of SecA
17	c2v1xB	Alignment		100.0	17	PDB header: hydrolase Chain: B: PDB Molecule: atp-dependent dna helicase q1; PDBTitle: crystal structure of human recq-like dna helicase
18	c4cdgA	Alignment		100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: bloom syndrome protein; PDBTitle: crystal structure of the bloom's syndrome helicase blm in complex with2 nanobody
19	c1gI9B	Alignment		100.0	22	PDB header: topoisomerase Chain: B: PDB Molecule: reverse gyrase; PDBTitle: archaeoglobus fulgidus reverse gyrase complexed with adpnp
20	c5IstA	Alignment		100.0	25	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent dna helicase q4; PDBTitle: crystal structure of the human recq4 helicase.
21	c5v9xA	Alignment	not modelled	100.0	23	PDB header: hydrolase/dna Chain: A: PDB Molecule: atp-dependent dna helicase; PDBTitle: structure of mycobacterium smegmatis helicase lhr bound to ssdna and2 amp-pnp
22	c1oywA	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent dna helicase; PDBTitle: structure of the recq catalytic core
23	c4IjyA	Alignment	not modelled	100.0	14	PDB header: hydrolase Chain: A: PDB Molecule: pre-mrna-processing atp-dependent rna helicase prp5; PDBTitle: crystal structure of rna splicing effector prp5 in complex with adp
24	d1tf5a4	Alignment	not modelled	100.0	47	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Tandem AAA-ATPase domain
25	c1gm5A	Alignment	not modelled	100.0	23	PDB header: helicase Chain: A: PDB Molecule: recg; PDBTitle: structure of recg bound to three-way dna junction
26	c4ddvA	Alignment	not modelled	100.0	21	PDB header: hydrolase Chain: A: PDB Molecule: reverse gyrase; PDBTitle: thermotoga maritima reverse gyrase, triclinic form
27	c4q47A	Alignment	not modelled	100.0	20	PDB header: dna binding protein Chain: A: PDB Molecule: dna helicase recq; PDBTitle: structure of the drrecq catalytic core in complex with adp
28	c5Ib5C	Alignment	not modelled	100.0	21	PDB header: hydrolase Chain: C: PDB Molecule: atp-dependent dna helicase q5; PDBTitle: crystal structure of human recq15 helicase in complex with adp/mg2 (triclinic form). PDB header: hydrolase

29	c4w7sA	Alignment	not modelled	100.0	20	Chain: A: PDB Molecule: pre-mrna-splicing atp-dependent rna helicase prp28; PDBTitle: crystal structure of the yeast dead-box splicing factor prp28 at 2.542 angstroms resolution
30	c2eyqA	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: transcription-repair coupling factor; PDBTitle: crystal structure of escherichia coli transcription-repair2 coupling factor
31	c2db3D	Alignment	not modelled	100.0	17	PDB header: hydrolase/rna Chain: D: PDB Molecule: atp-dependent rna helicase vasa; PDBTitle: structural basis for rna unwinding by the dead-box protein2 drosophila vasa
32	c6iehB	Alignment	not modelled	100.0	18	PDB header: rna binding protein Chain: B: PDB Molecule: exosome rna helicase mtr4; PDBTitle: crystal structures of the hmtr4-nrde2 complex
33	c4pxaA	Alignment	not modelled	100.0	16	PDB header: translation, rna binding protein Chain: A: PDB Molecule: atp-dependent rna helicase ddx3x; PDBTitle: dead-box rna helicase ddx3x cancer-associated mutant d354v
34	c4xgtA	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: frq-interacting rna helicase; PDBTitle: structure of rna helicase frh a critical component of the neurospora2 crassa circadian clock
35	d1nktA1	Alignment	not modelled	100.0	31	Fold: Pre-protein crosslinking domain of SecA Superfamily: Pre-protein crosslinking domain of SecA Family: Pre-protein crosslinking domain of SecA
36	c2xgjA	Alignment	not modelled	100.0	19	PDB header: hydrolase/rna Chain: A: PDB Molecule: atp-dependent rna helicase dob1; PDBTitle: structure of mtr4, a dexh helicase involved in nuclear rna2 processing and surveillance
37	c6c0fp	Alignment	not modelled	100.0	22	PDB header: ribosome Chain: P: PDB Molecule: 60s ribosomal protein l17-a; PDBTitle: yeast nucleolar pre-60s ribosomal subunit (state 2)
38	c6c90A	Alignment	not modelled	100.0	16	PDB header: hydrolase/rna binding protein Chain: A: PDB Molecule: exosome rna helicase mtr4,exosome rna helicase mtr4; PDBTitle: human mtr4 helicase in complex with zcchc8-ctd
39	d1tf5a1	Alignment	not modelled	100.0	35	Fold: Pre-protein crosslinking domain of SecA Superfamily: Pre-protein crosslinking domain of SecA Family: Pre-protein crosslinking domain of SecA
40	c1c4oA	Alignment	not modelled	100.0	17	PDB header: replication Chain: A: PDB Molecule: dna nucleotide excision repair enzyme uvrB; PDBTitle: crystal structure of the dna nucleotide excision repair enzyme uvrB2 from thermus thermophilus
41	c4gl2A	Alignment	not modelled	100.0	14	PDB header: rna binding protein/rna Chain: A: PDB Molecule: interferon-induced helicase c domain-containing protein 1; PDBTitle: structural basis for dsrna duplex backbone recognition by mda5
42	c3l9oA	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent rna helicase dob1; PDBTitle: crystal structure of mtr4, a co-factor of the nuclear exosome
43	c3tmiA	Alignment	not modelled	100.0	13	PDB header: hydrolase/rna Chain: A: PDB Molecule: atp-dependent rna helicase ddx58; PDBTitle: structural basis for rna recognition and activation of rig-i
44	c5lqwC	Alignment	not modelled	100.0	21	PDB header: splicing Chain: C: PDB Molecule: pre-mrna-splicing helicase brr2; PDBTitle: yeast activated spliceosome
45	c3i5yA	Alignment	not modelled	100.0	20	PDB header: hydrolase/rna Chain: A: PDB Molecule: atp-dependent rna helicase mss116; PDBTitle: structure of mss116p bound to ssrna containing a single 5-bru and amp-2 pnp
46	c5dtuA	Alignment	not modelled	99.9	23	PDB header: hydrolase Chain: A: PDB Molecule: prp28; PDBTitle: crystal structure of the rna-helicase prp28 from chaetomium2 thermophilum bound to adp
47	c5agaA	Alignment	not modelled	99.9	17	PDB header: transferase Chain: A: PDB Molecule: dna polymerase theta; PDBTitle: crystal structure of the helicase domain of human dna2 polymerase theta in complex with amppnp
48	c5jb2A	Alignment	not modelled	99.9	18	PDB header: immune system Chain: A: PDB Molecule: lgp2; PDBTitle: crystal structure of chicken lgp2 with 5'ppp 10-mer dsrna and adp-2 alf4-mg2+ at 2.2 a resolution.
49	c3kx2A	Alignment	not modelled	99.9	24	PDB header: hydrolase Chain: A: PDB Molecule: pre-mrna-splicing factor atp-dependent rna helicase prp43; PDBTitle: crystal structure of prp43p in complex with adp
50	c6iczY	Alignment	not modelled	99.9	19	PDB header: splicing Chain: Y: PDB Molecule: atp-dependent rna helicase dhx8; PDBTitle: cryo-em structure of a human post-catalytic spliceosome (p complex) at2 3.0 angstrom
51	c5jcfB	Alignment	not modelled	99.9	12	PDB header: immune system Chain: B: PDB Molecule: melanoma differentiation associated protein-5; PDBTitle: crystal structure of chicken mda5 with 5'p 10-mer dsrna and adp-mg2+2 at 2.6 a resolution (orthorhombic form).
52	c4nhoA	Alignment	not modelled	99.9	18	PDB header: hydrolase Chain: A: PDB Molecule: probable atp-dependent rna helicase ddx23; PDBTitle: structure of the spliceosomal dead-box protein prp28
53	c3rc8A	Alignment	not modelled	99.9	17	PDB header: hydrolase/rna Chain: A: PDB Molecule: atp-dependent rna helicase supv311, mitochondrial; PDBTitle: human mitochondrial helicase suv3 in complex with short rna fragment

54	c1xtkA_	Alignment	not modelled	99.9	22	PDB header: gene regulation Chain: A: PDB Molecule: probable atp-dependent rna helicase p47; PDBTitle: structure of decd to dead mutation of human uap56
55	c4d25A_	Alignment	not modelled	99.9	18	PDB header: hydrolase Chain: A: PDB Molecule: bmvlg protein; PDBTitle: crystal structure of the bombyx mori vasa helicase (e339q)2 in complex with rna and amppnp
56	c4bgdA_	Alignment	not modelled	99.9	20	PDB header: transcription Chain: A: PDB Molecule: pre-mrna-splicing helicase brr2; PDBTitle: crystal structure of brr2 in complex with the jab1/mpn domain of prp8
57	c2jlrA_	Alignment	not modelled	99.9	22	PDB header: hydrolase Chain: A: PDB Molecule: serine protease subunit ns3; PDBTitle: dengue virus 4 ns3 helicase in complex with amppnp
58	c1hv8B_	Alignment	not modelled	99.9	19	PDB header: rna binding protein Chain: B: PDB Molecule: putative atp-dependent rna helicase mj0669; PDBTitle: crystal structure of a dead box protein from the2 hyperthermophile methanococcus jannaschii
59	c2z83A_	Alignment	not modelled	99.9	25	PDB header: viral protein Chain: A: PDB Molecule: helicase/nucleoside triphosphatase; PDBTitle: crystal structure of catalytic domain of japanese2 encephalitis virus ns3 helicase/nucleoside triphosphatase3 at a resolution 1.8
60	c5dcaA_	Alignment	not modelled	99.9	19	PDB header: hydrolase Chain: A: PDB Molecule: pre-mrna-splicing helicase brr2; PDBTitle: crystal structure of yeast full length brr2 in complex with prp8 jab12 domain
61	c5m52B_	Alignment	not modelled	99.9	21	PDB header: hydrolase Chain: B: PDB Molecule: pre-mrna-splicing helicase brr2; PDBTitle: crystal structure of yeast brr2 full-length in complex with prp8 jab12 domain
62	c3oiyB_	Alignment	not modelled	99.9	21	PDB header: isomerase Chain: B: PDB Molecule: reverse gyrase helicase domain; PDBTitle: helicase domain of reverse gyrase from thermotoga maritima
63	c1s2mA_	Alignment	not modelled	99.9	15	PDB header: rna binding protein Chain: A: PDB Molecule: putative atp-dependent rna helicase dhh1; PDBTitle: crystal structure of the dead box protein dhh1p
64	c5ylzW_	Alignment	not modelled	99.9	24	PDB header: splicing Chain: W: PDB Molecule: pre-mrna-splicing factor atp-dependent rna helicase prp22; PDBTitle: cryo-em structure of the post-catalytic spliceosome from saccharomyces2 cerevisiae at 3.6 angstrom
65	c5supB_	Alignment	not modelled	99.9	22	PDB header: hydrolase/rna Chain: B: PDB Molecule: atp-dependent rna helicase sub2; PDBTitle: structure of mrna export factors
66	c3ewsA_	Alignment	not modelled	99.9	15	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent rna helicase ddx19b; PDBTitle: human dead-box rna-helicase ddx19 in complex with adp
67	c2va8A_	Alignment	not modelled	99.9	21	PDB header: hydrolase Chain: A: PDB Molecule: ski2-type helicase; PDBTitle: dna repair helicase hel308
68	c6iegA_	Alignment	not modelled	99.9	16	PDB header: rna binding protein Chain: A: PDB Molecule: exosome rna helicase mtr4; PDBTitle: crystal structure of human mtr4
69	c4a4zA_	Alignment	not modelled	99.9	14	PDB header: hydrolase Chain: A: PDB Molecule: antiviral helicase ski2; PDBTitle: crystal structure of the s. cerevisiae dexh helicase ski2 bound to2 amppnp
70	c2d7dA_	Alignment	not modelled	99.9	13	PDB header: hydrolase/dna Chain: A: PDB Molecule: uvrbc system protein b; PDBTitle: structural insights into the cryptic dna dependent atp-ase2 activity of uvrbc
71	c5vheA_	Alignment	not modelled	99.9	24	PDB header: hydrolase Chain: A: PDB Molecule: deah (asp-glu-ala-his) box polypeptide 36; PDBTitle: dhx36 in complex with the c-myc g-quadruplex
72	c6ah0D_	Alignment	not modelled	99.9	20	PDB header: splicing Chain: D: PDB Molecule: u5 small nuclear ribonucleoprotein 200 kda helicase; PDBTitle: the cryo-em structure of the precursor of human pre-catalytic2 spliceosome (pre-b complex)
73	c6h57A_	Alignment	not modelled	99.9	21	PDB header: hydrolase Chain: A: PDB Molecule: probable atp-dependent rna helicase dhr1; PDBTitle: crystal structure of s. cerevisiae deah-box rna helicase dhr1,2 essential for small ribosomal subunit biogenesis
74	c2p6uA_	Alignment	not modelled	99.9	19	PDB header: dna binding protein Chain: A: PDB Molecule: afuhel308 helicase; PDBTitle: apo structure of the hel308 superfamily 2 helicase
75	c3pexA_	Alignment	not modelled	99.9	18	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent rna helicase dbp5; PDBTitle: s. cerevisiae dbp5 l327v bound to gle1 h337r and ip6
76	c5z58x_	Alignment	not modelled	99.9	25	PDB header: splicing Chain: X: PDB Molecule: smad nuclear-interacting protein 1; PDBTitle: cryo-em structure of a human activated spliceosome (early bact) at 4.92 angstrom.
77	c4ct4B_	Alignment	not modelled	99.9	20	PDB header: rna binding protein Chain: B: PDB Molecule: probable atp-dependent rna helicase ddx6; PDBTitle: cnot1 mif4g domain - ddx6 complex
78	c5mq0V_	Alignment	not modelled	99.9	25	PDB header: splicing Chain: V: PDB Molecule: pre-mrna-splicing factor atp-dependent rna helicase prp22; PDBTitle: structure of a spliceosome remodeled for exon ligation
						PDB header: hydrolase Chain: A: PDB Molecule: flavivirin protease ns2b regulatory subunit,

79	c2wv9A_	Alignment	not modelled	99.9	25	flavivirin PDBTitle: crystal structure of the ns3 protease-helicase from murray2 valley encephalitis virus
80	c5m59C_	Alignment	not modelled	99.9	21	PDB header: splicing Chain: C: PDB Molecule: pre-mrna splicing helicase-like protein; PDBTitle: crystal structure of chaetomium thermophilum brr2 helicase core in2 complex with prp8 jab1 domain
81	c3fhtA_	Alignment	not modelled	99.9	13	PDB header: hydrolase/rna Chain: A: PDB Molecule: atp-dependent rna helicase ddx19b; PDBTitle: crystal structure of human dbp5 in complex with amppnp and rna
82	c6hegA_	Alignment	not modelled	99.9	25	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent rna helicase hrpb; PDBTitle: crystal structure of escherichia coli deah/rna helicase hrpb
83	c2v6jA_	Alignment	not modelled	99.9	21	PDB header: hydrolase Chain: A: PDB Molecule: rna helicase; PDBTitle: kokobera virus helicase: mutant met47thr
84	c5mqfq_	Alignment	not modelled	99.9	18	PDB header: splicing Chain: Q: PDB Molecule: protein bud31 homolog; PDBTitle: cryo-em structure of a human spliceosome activated for step 2 of2 splicing (c* complex)
85	c5wsge_	Alignment	not modelled	99.9	23	PDB header: rna binding protein/rna Chain: E: PDB Molecule: saccharomyces cerevisiae s288c snr6 snrna; PDBTitle: cryo-em structure of the catalytic step ii spliceosome (c* complex) at2 4.0 angstrom resolution
86	c6fa5A_	Alignment	not modelled	99.9	23	PDB header: hydrolase Chain: A: PDB Molecule: putative mrna splicing factor; PDBTitle: crystal structure of the deah-box helicase prp2 in complex with adp
87	c5ivlA_	Alignment	not modelled	99.9	21	PDB header: hydrolase Chain: A: PDB Molecule: dead-box atp-dependent rna helicase csha; PDBTitle: csha helicase
88	c4f92B_	Alignment	not modelled	99.9	19	PDB header: hydrolase Chain: B: PDB Molecule: u5 small nuclear ribonucleoprotein 200 kda helicase; PDBTitle: brr2 helicase region s1087l
89	c2hxyC_	Alignment	not modelled	99.9	17	PDB header: hydrolase Chain: C: PDB Molecule: probable atp-dependent rna helicase ddx48; PDBTitle: crystal structure of human apo-eif4aiii
90	c6f4aB_	Alignment	not modelled	99.9	23	PDB header: hydrolase Chain: B: PDB Molecule: suv3 helicase; PDBTitle: yeast mitochondrial rna degradosome complex mtexo
91	c5n8zA_	Alignment	not modelled	99.9	26	PDB header: hydrolase Chain: A: PDB Molecule: cg9323, isoform a; PDBTitle: crystal structure of drosophila dhx36 helicase in complex with2 ctctccctt
92	c1wp9D_	Alignment	not modelled	99.9	19	PDB header: hydrolase Chain: D: PDB Molecule: atp-dependent rna helicase, putative; PDBTitle: crystal structure of pyrococcus furiosus hef helicase domain
93	c1ymfA_	Alignment	not modelled	99.9	19	PDB header: hydrolase Chain: A: PDB Molecule: genome polyprotein [contains: flavivirin protease ns3 PDBTitle: crystal structure of yellow fever virus ns3 helicase complexed with2 adp
94	c5zamA_	Alignment	not modelled	99.9	13	PDB header: hydrolase/protein binding/rna Chain: A: PDB Molecule: endoribonuclease dicer; PDBTitle: cryo-em structure of human dicer and its complexes with a pre-mirna2 substrate
95	c4bujA_	Alignment	not modelled	99.9	17	PDB header: hydrolase Chain: A: PDB Molecule: antiviral helicase ski2; PDBTitle: crystal structure of the s. cerevisiae ski2-3-8 complex
96	c3eiqD_	Alignment	not modelled	99.9	19	PDB header: hydrolase/antitumor protein Chain: D: PDB Molecule: eukaryotic initiation factor 4a-i; PDBTitle: crystal structure of pdcd4-eif4a
97	c2ocaA_	Alignment	not modelled	99.9	18	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent dna helicase uvsw; PDBTitle: the crystal structure of t4 uvsw
98	c2i4iA_	Alignment	not modelled	99.9	17	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent rna helicase ddx3x; PDBTitle: crystal structure of human dead-box rna helicase ddx3x
99	c4kbfA_	Alignment	not modelled	99.9	25	PDB header: hydrolase Chain: A: PDB Molecule: heat resistant rna dependent atpase; PDBTitle: two different open conformations of the helicase core of the rna2 helicase hera
100	c5lqwO_	Alignment	not modelled	99.9	23	PDB header: splicing Chain: O: PDB Molecule: pre-mrna-splicing factor atp-dependent rna helicase-like PDBTitle: yeast activated spliceosome
101	c6jdeB_	Alignment	not modelled	99.9	18	PDB header: hydrolase Chain: B: PDB Molecule: putative dna repair helicase radd; PDBTitle: crystal structure of a dna repair protein
102	c2z0mA_	Alignment	not modelled	99.9	23	PDB header: rna binding protein Chain: A: PDB Molecule: 337aa long hypothetical atp-dependent rna PDBTitle: crystal structure of hypothetical atp-dependent rna2 helicase from sulfolobus tokodaii
103	c5xdrA_	Alignment	not modelled	99.9	22	PDB header: hydrolase Chain: A: PDB Molecule: pre-mrna-splicing factor atp-dependent rna helicase dhx15; PDBTitle: crystal structure of human deah-box rna helicase dhx15 in complex with2 adp
						PDB header: splicing Chain: Q: PDB Molecule: pre-mrna-splicing factor atp-dependent

104	c5lj5Q_	Alignment	not modelled	99.9	23	rna helicase prp16; PDBTitle: overall structure of the yeast spliceosome immediately after2 branching.
105	c2vbcA_	Alignment	not modelled	99.9	22	PDB header: hydrolase Chain: A; PDB Molecule: dengue 4 ns3 full-length protein; PDBTitle: crystal structure of the ns3 protease-helicase from dengue2 virus
106	c2zj2A_	Alignment	not modelled	99.9	20	PDB header: hydrolase Chain: A; PDB Molecule: putative ski2-type helicase; PDBTitle: archaeal dna helicase hjm apo state in form 1
107	c3jcrC_	Alignment	not modelled	99.9	21	PDB header: splicing Chain: C; PDB Molecule: hbr2; PDBTitle: 3d structure determination of the human*u4/u6.u5* tri-snnp complex
108	c6o16A_	Alignment	not modelled	99.9	22	PDB header: hydrolase/rna Chain: A; PDB Molecule: deah (asp-glu-ala-his) box polypeptide 37; PDBTitle: crystal structure of murine dhx37 in complex with rna
109	c2zj8A_	Alignment	not modelled	99.9	17	PDB header: hydrolase Chain: A; PDB Molecule: putative ski2-type helicase; PDBTitle: archaeal dna helicase hjm apo state in form 2
110	c2vsxA_	Alignment	not modelled	99.9	19	PDB header: translation/hydrolase Chain: A; PDB Molecule: atp-dependent rna helicase eif4a; PDBTitle: crystal structure of a translation initiation complex
111	c5fmf1_	Alignment	not modelled	99.9	19	PDB header: transcription Chain: 1; PDB Molecule: dna repair helicase rad25, ssl2; PDBTitle: the p-lobe of rna polymerase ii pre-initiation complex
112	c6nmiA_	Alignment	not modelled	99.9	16	PDB header: transcription Chain: A; PDB Molecule: general transcription and dna repair factor iih helicase PDBTitle: cryo-em structure of the human tfiih core complex
113	c5aorA_	Alignment	not modelled	99.9	24	PDB header: hydrolase/rna Chain: A; PDB Molecule: dosage compensation regulator; PDBTitle: structure of mle rna adp alf4 complex
114	c2qeqA_	Alignment	not modelled	99.9	18	PDB header: hydrolase Chain: A; PDB Molecule: flavivirin protease ns3 catalytic subunit; PDBTitle: crystal structure of kunjin virus ns3 helicase
115	c3tbkA_	Alignment	not modelled	99.9	16	PDB header: hydrolase Chain: A; PDB Molecule: rig-i helicase domain; PDBTitle: mouse rig-i atpase domain
116	c5ivwV_	Alignment	not modelled	99.9	16	PDB header: transcription/dna Chain: V; PDB Molecule: tfiih basal transcription factor complex helicase xpb PDBTitle: human core tfiih bound to dna within the pic
117	c1a1vA_	Alignment	not modelled	99.9	26	PDB header: hydrolase/dna Chain: A; PDB Molecule: protein (ns3 protein); PDBTitle: hepatitis c virus ns3 helicase domain complexed with single2 stranded sdna
118	c4nl4H_	Alignment	not modelled	99.9	20	PDB header: dna binding protein Chain: H; PDB Molecule: primosome assembly protein pria; PDBTitle: pria helicase bound to adp
119	c2f55C_	Alignment	not modelled	99.9	25	PDB header: hydrolase/dna Chain: C; PDB Molecule: polyprotein; PDBTitle: two hepatitis c virus ns3 helicase domains complexed with the same2 strand of dna
120	c6i3oA_	Alignment	not modelled	99.9	22	PDB header: hydrolase Chain: A; PDB Molecule: putative pre-mrna splicing factor; PDBTitle: crystal structure of deah-box atpase prp22