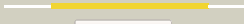

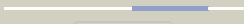
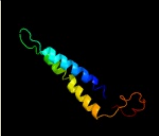

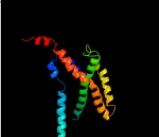

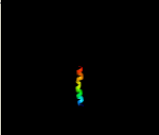

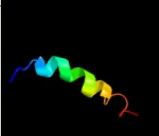

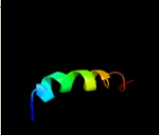





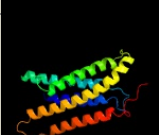



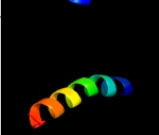


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2693c_(-)_3010707_3011378
Date	Wed Aug 7 12:50:34 BST 2019
Unique Job ID	81a382c22ff45571

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2w8aC_	 Alignment		77.8	17	PDB header: membrane protein Chain: C: PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of the sodium-coupled glycine betaine2 symporter betp from corynebacterium glutamicum with bound3 substrate
2	c6hwhX_	 Alignment		20.3	16	PDB header: electron transport Chain: X: PDB Molecule: cytochrome c oxidase polypeptide 4; PDBTitle: structure of a functional obligate respiratory supercomplex from2 mycobacterium smegmatis
3	c4ainB_	 Alignment		20.0	17	PDB header: membrane protein Chain: B: PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of betp with asymmetric protomers.
4	c2pmzQ_	 Alignment		17.2	29	PDB header: translation, transferase Chain: Q: PDB Molecule: dna-directed rna polymerase subunit a; PDBTitle: archaeal rna polymerase from sulfolobus solfataricus
5	d1i6vd_	 Alignment		15.9	19	Fold: beta and beta-prime subunits of DNA dependent RNA-polymerase Superfamily: beta and beta-prime subunits of DNA dependent RNA-polymerase Family: RNA-polymerase beta-prime
6	c1i6vD_	 Alignment		15.9	19	PDB header: transcription Chain: D: PDB Molecule: dna-directed rna polymerase; PDBTitle: thermus aquaticus core rna polymerase-rifampicin complex
7	c1i6hA_	 Alignment		13.7	24	PDB header: transcription/dna-rna hybrid Chain: A: PDB Molecule: dna-directed rna polymerase ii largest subunit; PDBTitle: rna polymerase ii elongation complex
8	c4iqcD_	 Alignment		13.1	24	PDB header: transcription, transferase Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: x-ray crystal structure of escherichia coli sigma70 holoenzyme
9	c5zlgA_	 Alignment		12.7	11	PDB header: oxidoreductase Chain: A: PDB Molecule: cytochrome b reductase 1; PDBTitle: human duodenal cytochrome b (dcbt) in zinc ion and ascorbate bound2 form
10	c4g7oN_	 Alignment		12.6	19	PDB header: transcription, transferase/dna Chain: N: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: crystal structure of thermus thermophilus transcription initiation2 complex containing 2 nt of rna
11	c3aoil_	 Alignment		12.3	19	PDB header: transcription, transferase/dna/rna Chain: I: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: rna polymerase-gfh1 complex (crystal type 2)

12	c2o5jN_	Alignment		12.1	19	PDB header: transferase/dna-rna hybrid Chain: N: PDB Molecule: dna-directed rna polymerase beta' chain; PDBTitle: crystal structure of the t. thermophilus rnap polymerase elongation2 complex with the ntp substrate analog
13	c2o5iD_	Alignment		12.0	19	PDB header: transferase/dna-rna hybrid Chain: D: PDB Molecule: dna-directed rna polymerase beta' chain; PDBTitle: crystal structure of the t. thermophilus rna polymerase elongation2 complex
14	d1twfa_	Alignment		11.8	24	Fold: beta and beta-prime subunits of DNA dependent RNA-polymerase Superfamily: beta and beta-prime subunits of DNA dependent RNA-polymerase Family: RNA-polymerase beta-prime
15	c4wqsD_	Alignment		11.6	19	PDB header: transferase/dna/rna Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: thermus thermophilus rna polymerase backtracked complex
16	c6cceD_	Alignment		11.5	24	PDB header: transcription/dna/antibiotic Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: crystal structure of a mycobacterium smegmatis rna polymerase2 transcription initiation complex with inhibitor kanglemycin a
17	c6drdA_	Alignment		11.3	24	PDB header: transferase Chain: A: PDB Molecule: dna-directed rna polymerase ii subunit rpb1; PDBTitle: rna pol ii(g)
18	c5x22D_	Alignment		10.4	19	PDB header: transferase/dna Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: crystal structure of thermus thermophilus transcription initiation2 complex with gpa and cmpcpp
19	c19uD_	Alignment		10.3	19	PDB header: transcription Chain: D: PDB Molecule: rna polymerase, beta-prime subunit; PDBTitle: thermus aquaticus rna polymerase holoenzyme at 4 a2 resolution
20	c4c3iA_	Alignment		10.1	14	PDB header: transferase Chain: A: PDB Molecule: dna-directed rna polymerase i subunit rpa190; PDBTitle: structure of 14-subunit rna polymerase i at 3.0 a resolution, crystal2 form c2-100
21	c5tbzD_	Alignment	not modelled	10.1	24	PDB header: transcription/rna Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: e. coli rna polymerase complexed with nusg
22	c3aoiN_	Alignment	not modelled	9.9	19	PDB header: transcription, transferase/dna/rna Chain: N: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: rna polymerase-gfh1 complex (crystal type 2)
23	d1smyd_	Alignment	not modelled	9.9	19	Fold: beta and beta-prime subunits of DNA dependent RNA-polymerase Superfamily: beta and beta-prime subunits of DNA dependent RNA-polymerase Family: RNA-polymerase beta-prime
24	c5flmA_	Alignment	not modelled	9.8	24	PDB header: transcription Chain: A: PDB Molecule: dna-directed rna polymerase; PDBTitle: structure of transcribing mammalian rna polymerase ii
25	c5m3fA_	Alignment	not modelled	9.7	14	PDB header: transcription Chain: A: PDB Molecule: dna-directed rna polymerase i subunit rpa190; PDBTitle: yeast rna polymerase i elongation complex at 3.8a
26	c4llgJ_	Alignment	not modelled	9.7	24	PDB header: transferase Chain: J: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: crystal structure analysis of the e.coli holoenzyme/gp2 complex
27	c3h0gA_	Alignment	not modelled	9.6	19	PDB header: transcription Chain: A: PDB Molecule: dna-directed rna polymerase ii subunit rpb1; PDBTitle: rna polymerase ii from schizosaccharomyces pombe
28	c6gmlA_	Alignment	not modelled	9.4	24	PDB header: transcription Chain: A: PDB Molecule: dna-directed rna polymerase subunit; PDBTitle: structure of paused transcription complex pol ii-dsif-nelf

29	c6j9eD_	 Alignment	not modelled	9.3	19	PDB header: transcription Chain: D; PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: cryo-em structure of xanthomonos oryzae transcription elongation2 complex with nusa and the bacteriophage protein p7
30	c5xj0D_	 Alignment	not modelled	9.1	17	PDB header: transferase/transcription Chain: D; PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: t. thermophilus rna polymerase holoenzyme bound with gp39 and gp76
31	c5fjaA_	 Alignment	not modelled	8.7	24	PDB header: transcription Chain: A; PDB Molecule: dna-directed rna polymerase iii subunit rpc1'; PDBTitle: cryo-em structure of yeast rna polymerase iii at 4.7 a
32	c1twaA_	 Alignment	not modelled	8.2	24	PDB header: transcription Chain: A; PDB Molecule: dna-directed rna polymerase ii largest subunit; PDBTitle: rna polymerase ii complexed with atp
33	c5tw1D_	 Alignment	not modelled	8.0	24	PDB header: transcription activator/transferase/dna Chain: D; PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: crystal structure of a mycobacterium smegmatis transcription2 initiation complex with rbpa
34	c4qiwa_	 Alignment	not modelled	7.3	29	PDB header: transcription Chain: A; PDB Molecule: dna-directed rna polymerase; PDBTitle: crystal structure of euryarchaeal rna polymerase from thermococcus2 kodakarensis
35	d1ynjd1	 Alignment	not modelled	7.1	19	Fold: beta and beta-prime subunits of DNA dependent RNA-polymerase Superfamily: beta and beta-prime subunits of DNA dependent RNA-polymerase Family: RNA-polymerase beta-prime
36	c4b1pW_	 Alignment	not modelled	6.4	29	PDB header: transferase/dna Chain: W; PDB Molecule: dna-directed rna polymerase; PDBTitle: archaeal rnap-dna binary complex at 4.32ang
37	c4xsxJ_	 Alignment	not modelled	6.3	24	PDB header: transcription/antibiotic Chain: J; PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: crystal structure of cbr 703 bound to escherichia coli rna polymerase2 holoenzyme
38	c3iydD_	 Alignment	not modelled	5.9	24	PDB header: transcription/dna Chain: D; PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: three-dimensional em structure of an intact activator-dependent2 transcription initiation complex