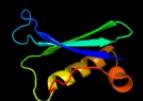
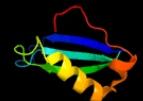
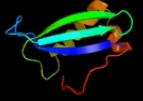
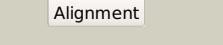
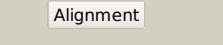
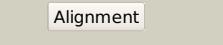
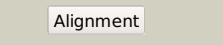
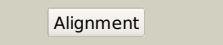
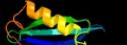


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD1765A (-)_1999149_1999364
Date	Fri Aug 2 13:30:37 BST 2019
Unique Job ID	2e0359d54271509a

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1c0mA_			99.1	20	PDB header: transferase Chain: A: PDB Molecule: protein (integrase); PDBTitle: crystal structure of rsv two-domain integrase
2	d1asua_			99.0	20	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: Retroviral integrase, catalytic domain
3	d1cxqa_			99.0	20	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: Retroviral integrase, catalytic domain
4	d1c0ma2			99.0	20	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: Retroviral integrase, catalytic domain
5	c5ejkG_			98.9	20	PDB header: transferase/dna Chain: G: PDB Molecule: gag-pro-pol polyprotein; PDBTitle: crystal structure of the rous sarcoma virus intasome
6	d1bcoa2			98.9	26	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: mu transposase, core domain
7	c5cz1B_			98.7	15	PDB header: hydrolase Chain: B: PDB Molecule: integrase; PDBTitle: crystal structure of the catalytic core domain of mmtv integrase
8	c4mq3A_			98.7	21	PDB header: viral protein Chain: A: PDB Molecule: integrase; PDBTitle: the 1.1 angstrom structure of catalytic core domain of fiv integrase
9	c3nf9A_			98.6	18	PDB header: hydrolase/hydrolase inhibitor Chain: A: PDB Molecule: integrase; PDBTitle: structural basis for a new mechanism of inhibition of hiv integrase2 identified by fragment screening and structure based design
10	c4fcyA_			98.5	24	PDB header: dna binding protein/dna Chain: A: PDB Molecule: transposase; PDBTitle: crystal structure of the bacteriophage mu transpososome
11	c3jcaE_			98.5	17	PDB header: viral protein Chain: E: PDB Molecule: integrase; PDBTitle: core model of the mouse mammary tumor virus intasome

12	d1c6va	Alignment		98.4	15	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: Retroviral integrase, catalytic domain
13	c5u1cD	Alignment		98.3	18	PDB header: viral protein Chain: D: PDB Molecule: hiv-1 integrase, sso7d chimera; PDBTitle: structure of tetrameric hiv-1 strand transfer complex intasome
14	d1exqa	Alignment		98.3	18	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: Retroviral integrase, catalytic domain
15	c3kksB	Alignment		98.3	20	PDB header: dna binding protein Chain: B: PDB Molecule: integrase; PDBTitle: crystal structure of catalytic core domain of biv integrase in crystal2 form ii
16	c1ex4A	Alignment		98.3	18	PDB header: viral protein Chain: A: PDB Molecule: integrase; PDBTitle: hiv-1 integrase catalytic core and c-terminal domain
17	c1bcoA	Alignment		98.1	23	PDB header: transposase Chain: A: PDB Molecule: bacteriophage mu transposase; PDBTitle: bacteriophage mu transposase core domain
18	c3f9kV	Alignment		98.1	13	PDB header: viral protein, recombination Chain: V: PDB Molecule: integrase; PDBTitle: two domain fragment of hiv-2 integrase in complex with ledgf ibd
19	d1hyva	Alignment		97.9	18	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: Retroviral integrase, catalytic domain
20	c5u1cA	Alignment		97.9	18	PDB header: viral protein Chain: A: PDB Molecule: hiv-1 integrase, sso7d chimera; PDBTitle: structure of tetrameric hiv-1 strand transfer complex intasome
21	c3dlrA	Alignment	not modelled	97.5	23	PDB header: transferase Chain: A: PDB Molecule: integrase; PDBTitle: crystal structure of the catalytic core domain from pfv integrase
22	c1k6yB	Alignment	not modelled	97.4	18	PDB header: transferase Chain: B: PDB Molecule: integrase; PDBTitle: crystal structure of a two-domain fragment of hiv-1 integrase
23	c3hpgC	Alignment	not modelled	97.3	15	PDB header: transferase Chain: C: PDB Molecule: integrase; PDBTitle: visna virus integrase (residues 1-219) in complex with ledgf2 ibd: examples of open integrase dimer-dimer interfaces
24	c5m0rF	Alignment	not modelled	97.0	18	PDB header: hydrolase Chain: F: PDB Molecule: integrase; PDBTitle: cryo-em reconstruction of the maedi-visna virus (mvv) strand transfer complex
25	c3l2tB	Alignment	not modelled	96.2	23	PDB header: recombination/dna Chain: B: PDB Molecule: integrase; PDBTitle: crystal structure of the prototype foamy virus (pfv) intasome in2 complex with magnesium and mk0518 (raltegravir)
26	c5xnwA	Alignment	not modelled	27.2	26	PDB header: lyase Chain: A: PDB Molecule: adenylate cyclase exoy; PDBTitle: crystal structure of exoy, a unique nucleotidyl cyclase toxin from2 pseudomonas aeruginosa
27	d1s99a	Alignment	not modelled	22.5	24	Fold: Ferredoxin-like Superfamily: MTH1187/YkoF-like Family: Putative thiamin/HMP-binding protein YkoF
28	c2xk0A	Alignment	not modelled	21.1	15	PDB header: transcription Chain: A: PDB Molecule: polycomb protein pcl; PDBTitle: solution structure of the tudor domain from drosophila2 polycomblike (pcl) PDB header: hydrolase

29	c3ks7D	Alignment	not modelled	18.7	29	Chain: D: PDB Molecule: putative putative pngase f; PDBTitle: crystal structure of putative peptide:n-glycosidase f (pngase f)2 (yp_210507.1) from bacteroides fragilis nctc 9343 at 2.30 a3 resolution
30	d1d6za3	Alignment	not modelled	17.9	28	Fold: Cystatin-like Superfamily: Amine oxidase N-terminal region Family: Amine oxidase N-terminal region
31	c4f48A	Alignment	not modelled	15.5	12	PDB header: signaling protein Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: the x-ray structural of fimxeal-c-di-gmp-pilz complexes from2 xanthomonas campestris
32	c2e4jA	Alignment	not modelled	15.2	13	PDB header: isomerase Chain: A: PDB Molecule: prostaglandin-h2 d-isomerase; PDBTitle: solution structure of mouse lipocalin-type prostaglandin d2 synthase
33	c5ho0A	Alignment	not modelled	13.6	21	PDB header: hydrolase Chain: A: PDB Molecule: extracellular arabinanase; PDBTitle: crystal structure of abna (closed conformation), a gh43 extracellular arabinanase from geobacillus stearothermophilus
34	c3pz8A	Alignment	not modelled	13.2	25	PDB header: signaling protein Chain: A: PDB Molecule: segment polarity protein dishevelled homolog dvl-1; PDBTitle: crystal structure of dvl1-dix(y17d) mutant
35	d2oqea3	Alignment	not modelled	13.1	15	Fold: Cystatin-like Superfamily: Amine oxidase N-terminal region Family: Amine oxidase N-terminal region
36	c3cqrB	Alignment	not modelled	12.1	9	PDB header: oxidoreductase Chain: B: PDB Molecule: violaxanthin de-epoxidase, chloroplast; PDBTitle: crystal structure of the lipocalin domain of violaxanthin de-epoxidase2 (vde) at pH5
37	c4b6al	Alignment	not modelled	11.8	14	PDB header: ribosome Chain: I: PDB Molecule: 60s ribosomal protein l10; PDBTitle: cryo-em structure of the 60s ribosomal subunit in complex2 with arx1 and rei1
38	c3kzpA	Alignment	not modelled	11.7	20	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative diguanylate cyclase/phosphodiesterase; PDBTitle: crystal structure of putative diguanylate cyclase/phosphodiesterase2 from listaria monocytigenes
39	d1w6ga3	Alignment	not modelled	10.9	13	Fold: Cystatin-like Superfamily: Amine oxidase N-terminal region Family: Amine oxidase N-terminal region
40	c3lv4B	Alignment	not modelled	10.9	21	PDB header: hydrolase Chain: B: PDB Molecule: glycoside hydrolase yxia; PDBTitle: crystal structure of the glycoside hydrolase, family 43 yxia protein2 from bacillus licheniformis. northeast structural genomics consortium3 target bir14.
41	d2c9aa1	Alignment	not modelled	10.5	6	Fold: immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
42	c4bwvB	Alignment	not modelled	9.3	9	PDB header: oxidoreductase Chain: B: PDB Molecule: phosphoadenosine-phosphosulphate reductase; PDBTitle: structure of adenosine 5'-prime-phosphosulfate reductase apr-b from phycomitrella patens
43	d2basa1	Alignment	not modelled	8.9	20	Fold: TIM beta/alpha-barrel Superfamily: EAL domain-like Family: EAL domain
44	c2m0oA	Alignment	not modelled	8.6	21	PDB header: peptide binding protein Chain: A: PDB Molecule: phd finger protein 1; PDBTitle: the solution structure of human phf1 in complex with h3k36me3
45	c3hvbB	Alignment	not modelled	8.5	9	PDB header: hydrolase Chain: B: PDB Molecule: protein fimx; PDBTitle: crystal structure of the dual-domain ggdef-eal module of fimx from2 pseudomonas aeruginosa
46	c1h2iG	Alignment	not modelled	8.3	19	PDB header: dna binding protein Chain: G: PDB Molecule: dna repair protein rad52 homolog; PDBTitle: human rad52 protein, n-terminal domain
47	c4p37A	Alignment	not modelled	8.1	42	PDB header: transferase Chain: A: PDB Molecule: putative poly(a) polymerase catalytic subunit; PDBTitle: crystal structure of the megavirus polyadenylate synthase
48	c4q6jB	Alignment	not modelled	7.9	22	PDB header: unknown function Chain: B: PDB Molecule: lmo0131 protein; PDBTitle: crystal structure of eal domain protein from listeria monocytogenes2 egd-e
49	d1d6za2	Alignment	not modelled	7.8	15	Fold: Cystatin-like Superfamily: Amine oxidase N-terminal region Family: Amine oxidase N-terminal region
50	c4a1aH	Alignment	not modelled	7.6	11	PDB header: ribosome Chain: H: PDB Molecule: 60s ribosomal protein l10; PDBTitle: t.thermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna,3 5.8s rrna and proteins of molecule 3.
51	c6n2oB	Alignment	not modelled	7.5	14	PDB header: oxidoreductase Chain: B: PDB Molecule: pyruvate ferredoxin/flavodoxin oxidoreductase, beta PDBTitle: 2-oxoglutarate:ferredoxin oxidoreductase from magnetococcus marinus2 with 2-oxoglutarate, coenzyme a and succinyl-coa bound
52	d1ebda3	Alignment	not modelled	7.2	10	Fold: CO dehydrogenase flavoprotein C-domain-like Superfamily: FAD/NAD-linked reductases, dimerisation (C-terminal) domain Family: FAD/NAD-linked reductases, dimerisation (C-terminal) domain
53	d1kn0a	Aliament	not modelled	7.1	14	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like

					Family: The homologous-pairing domain of Rad52 recombinase
54	c3s83A_	Alignment	not modelled	6.3	PDB header: signaling protein Chain: A: PDB Molecule: ggdef family protein; PDBTitle: eal domain of phosphodiesterase pdea
55	c2k23A_	Alignment	not modelled	5.9	PDB header: transport protein Chain: A: PDB Molecule: lipocalin 2; PDBTitle: solution structure analysis of the rlcn2
56	c3pz7A_	Alignment	not modelled	5.8	PDB header: signaling protein Chain: A: PDB Molecule: dixin; PDBTitle: crystal structure of ccd1-dix domain
57	d1gesa3	Alignment	not modelled	5.6	Fold: CO dehydrogenase flavoprotein C-domain-like Superfamily: FAD/NAD-linked reductases, dimerisation (C-terminal) domain Family: FAD/NAD-linked reductases, dimerisation (C-terminal) domain
58	c3zf7K_	Alignment	not modelled	5.5	PDB header: ribosome Chain: K: PDB Molecule: 60s ribosomal protein l10, putative; PDBTitle: high-resolution cryo-electron microscopy structure of the trypanosoma2 brucei ribosome
59	c3l2uA_	Alignment	not modelled	5.4	PDB header: recombination/dna Chain: A: PDB Molecule: integrase; PDBTitle: crystal structure of the prototype foamy virus (pfv)2 intasome in complex with magnesium and gs91373 (elvitegravir)
60	c4lykB_	Alignment	not modelled	5.4	PDB header: hydrolase Chain: B: PDB Molecule: cyclic di-gmp phosphodiesterase yaha; PDBTitle: crystal structure of the eal domain of c-di-gmp specific2 phosphodiesterase yaha in complex with activating cofactor mg++
61	c5swcE_	Alignment	not modelled	5.4	PDB header: lyase Chain: E: PDB Molecule: carbonic anhydrase; PDBTitle: the structure of the beta-carbonic anhydrase ccaa
62	d3grsa3	Alignment	not modelled	5.3	Fold: CO dehydrogenase flavoprotein C-domain-like Superfamily: FAD/NAD-linked reductases, dimerisation (C-terminal) domain Family: FAD/NAD-linked reductases, dimerisation (C-terminal) domain
63	d1dxla3	Alignment	not modelled	5.2	Fold: CO dehydrogenase flavoprotein C-domain-like Superfamily: FAD/NAD-linked reductases, dimerisation (C-terminal) domain Family: FAD/NAD-linked reductases, dimerisation (C-terminal) domain
64	d1w2za3	Alignment	not modelled	5.2	Fold: Cystatin-like Superfamily: Amine oxidase N-terminal region Family: Amine oxidase N-terminal region
65	c3qkgA_	Alignment	not modelled	5.2	PDB header: immune system Chain: A: PDB Molecule: protein ambp; PDBTitle: crystal structure of alpha-1-microglobulin at 2.3 a resolution
66	c2r6oB_	Alignment	not modelled	5.2	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative diguanylate cyclase/phosphodiesterase (ggdef & eal) PDBTitle: crystal structure of putative diguanylate cyclase/phosphodiesterase2 from thiobacillus denitrificans
67	c4wseA_	Alignment	not modelled	5.1	PDB header: transferase Chain: A: PDB Molecule: putative poly(a) polymerase catalytic subunit; PDBTitle: crystal structure of the mimivirus polyadenylate synthase