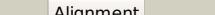
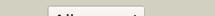
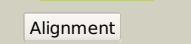
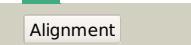
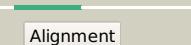
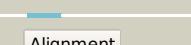


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD2674 (-) _2990716_2991126
Date	Wed Aug 7 12:50:32 BST 2019
Unique Job ID	307a37ab7af3646d

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2k8dA	 Alignment		100.0	57	PDB header: oxidoreductase Chain: A: PDB Molecule: peptide methionine sulfoxide reductase msrb; PDBTitle: solution structure of a zinc-binding methionine sulfoxide reductase
2	c3cezA	 Alignment		100.0	49	PDB header: oxidoreductase Chain: A: PDB Molecule: methionine-r-sulfoxide reductase; PDBTitle: crystal structure of methionine-r-sulfoxide reductase from2 burkholderia pseudomallei
3	c3e0mB	 Alignment		100.0	41	PDB header: oxidoreductase Chain: B: PDB Molecule: peptide methionine sulfoxide reductase msra/msrb PDBTitle: crystal structure of fusion protein of msra and msrb
4	d1l1da	 Alignment		100.0	41	Fold: Mss4-like Superfamily: Mss4-like Family: SeR domain
5	c5fa9B	 Alignment		100.0	41	PDB header: oxidoreductase Chain: B: PDB Molecule: peptide methionine sulfoxide reductase msra; PDBTitle: bifunctional methionine sulfoxide reductase ab (msrab) from treponema2 denticola
6	c3hcjB	 Alignment		100.0	46	PDB header: oxidoreductase Chain: B: PDB Molecule: peptide methionine sulfoxide reductase; PDBTitle: structure of msrb from xanthomonas campestris (oxidized2 form)
7	d1xm0a1	 Alignment		100.0	44	Fold: Mss4-like Superfamily: Mss4-like Family: SeR domain
8	c2l1ua	 Alignment		100.0	47	PDB header: oxidoreductase Chain: A: PDB Molecule: methionine-r-sulfoxide reductase b2, mitochondrial; PDBTitle: structure-functional analysis of mammalian msrb2 protein
9	c2kaoA	 Alignment		100.0	35	PDB header: oxidoreductase Chain: A: PDB Molecule: methionine-r-sulfoxide reductase b1; PDBTitle: structure of reduced mouse methionine sulfoxide reductase b12 (sec95cys mutant)
10	c4v30A	 Alignment		94.2	33	PDB header: signaling protein Chain: A: PDB Molecule: cereblon isoform 4; PDBTitle: cereblon isoform 4 from magnetospirillum gryphiswaldense in2 complex with lenalidomide
11	c5hj0C	 Alignment		93.8	21	PDB header: ligase Chain: C: PDB Molecule: kinetochore protein mis18; PDBTitle: crystal structure of mis18 'yippee-like' domain

12	c6b5bA		60.8	29	PDB header: immune system Chain: A: PDB Molecule: baculoviral iap repeat-containing protein 1e; PDBTitle: cryo-em structure of the naip5-nlrc4-flagellin inflammasome
13	d1v7mh1		43.7	17	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
14	d1aj7h1		42.9	10	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
15	d1gafh1		41.5	9	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
16	d1pfta		40.6	18	Fold: Rubredoxin-like Superfamily: Zinc beta-ribbon Family: Transcriptional factor domain
17	d1dl6a		40.2	18	Fold: Rubredoxin-like Superfamily: Zinc beta-ribbon Family: Transcriptional factor domain
18	c6cceD		37.1	18	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
19	d1smyd		36.4	33	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
20	d1vera		36.1	20	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
21	d2raxa1	Alignment not modelled	36.0	15	Fold: Inhibitor of apoptosis (IAP) repeat Superfamily: Inhibitor of apoptosis (IAP) repeat Family: Inhibitor of apoptosis (IAP) repeat
22	c4mngE	Alignment not modelled	34.0	33	PDB header: immune system Chain: E: PDB Molecule: tra@ protein,tra@ protein, ti antigen cd3-associated PDBTitle: structure of the dp10.7 tcr with cd1d-sulfatide
23	d1j8hd1	Alignment not modelled	33.8	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
24	c4g7oN	Alignment not modelled	32.5	31	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
25	d1h8ba	Alignment not modelled	32.2	18	Fold: EF Hand-like Superfamily: EF-hand Family: EF-hand modules in multidomain proteins
26	c2w4rB	Alignment not modelled	31.3	16	PDB header: hydrolase Chain: B: PDB Molecule: probable atp-dependent rna helicase dhh58; PDBTitle: crystal structure of the regulatory domain of human lgp2
27	c3qqcA	Alignment not modelled	30.5	31	PDB header: transcription Chain: A: PDB Molecule: dna-directed rna polymerase subunit b, dna-directed rna PDBTitle: crystal structure of archaeal spt4/5 bound to the rnap clamp domain
28	c3h0gl	Alignment not modelled	30.3	18	PDB header: transcription Chain: I: PDB Molecule: dna-directed rna polymerase ii subunit rpb9; PDBTitle: rna polymerase ii from schizosaccharomyces pombe

29	d1b88a	Alignment	not modelled	29.9	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
30	d1ggbh1	Alignment	not modelled	29.8	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
31	d1miml1	Alignment	not modelled	29.4	25	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
32	c6oanD	Alignment	not modelled	28.6	19	PDB header: cell invasion Chain: D: PDB Molecule: antibody 053054 single chain variable fragment; PDBTitle: structure of dbp in complex with human neutralizing antibody 053054
33	c2o5iD	Alignment	not modelled	28.6	33	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
34	c3facE	Alignment	not modelled	28.2	17	PDB header: unknown function Chain: E: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of rhodobacter sphaeroides protein2 rsp_2168. northeast structural genomics target rhr83.
35	c3w0fA	Alignment	not modelled	28.1	13	PDB header: hydrolase Chain: A: PDB Molecule: endonuclease 8-like 3; PDBTitle: crystal structure of mouse endonuclease viii-like 3 (mnei3)
36	c6dcfD	Alignment	not modelled	28.0	33	PDB header: transcription/dna/antibiotic Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: crystal structure of a mycobacterium smegmatis transcription2 initiation complex with rifampicin-resistant rna polymerase and bound3 to kanglemycin a
37	d1nakh1	Alignment	not modelled	27.9	13	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
38	c5x22D	Alignment	not modelled	26.9	31	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
39	c3k7aM	Alignment	not modelled	26.2	21	PDB header: transcription Chain: M: PDB Molecule: transcription initiation factor iib; PDBTitle: crystal structure of an rna polymerase ii-tfib complex
40	d1ynjd1	Alignment	not modelled	25.7	31	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
41	c4c2mX	Alignment	not modelled	25.4	15	PDB header: transcription Chain: X: PDB Molecule: dna-directed rna polymerase i subunit rpa12; PDBTitle: structure of rna polymerase i at 2.8 a resolution
42	c5xcqB	Alignment	not modelled	25.3	25	PDB header: immune system Chain: B: PDB Molecule: vlf-sarah(m24c) chimera; PDBTitle: crystal structure of p20.1 fv-clasp fragment with its antigen peptide
43	c3i0yC	Alignment	not modelled	25.3	12	PDB header: isomerase Chain: C: PDB Molecule: putative polyketide cyclase; PDBTitle: crystal structure of a putative polyketide cyclase (xcc0381) from2 xanthomonas campestris pv. campestris at 1.50 a resolution
44	d1dfbl1	Alignment	not modelled	25.1	19	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
45	c4llgl	Alignment	not modelled	24.7	33	PDB header: transferase Chain: J: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: crystal structure analysis of the e.coli holoenzyme/gp2 complex
46	c2znwB	Alignment	not modelled	24.3	10	PDB header: immune system/hydrolase Chain: B: PDB Molecule: scfv10; PDBTitle: crystal structure of scfv10 in complex with hen egg lysozyme
47	c4wqsD	Alignment	not modelled	24.3	33	PDB header: transferase/dna/rna Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: thermus thermophilus rna polymerase backtracked complex
48	c1ua6H	Alignment	not modelled	24.2	10	PDB header: immune system/hydrolase Chain: H: PDB Molecule: ig vh,anti-lysozyme; PDBTitle: crystal structure of hyHEL-10 fv mutant sfsf complexed with2 hen egg white lysozyme complex
49	d2i27n1	Alignment	not modelled	23.9	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
50	d1jnlh1	Alignment	not modelled	23.7	10	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
51	c2zkr2	Alignment	not modelled	23.5	30	PDB header: ribosomal protein/rna Chain: 2: PDB Molecule: 60s ribosomal protein I37e; PDBTitle: structure of a mammalian ribosomal 60s subunit within an 80s complex2 obtained by docking homology models of the rna and proteins into an3 8.7 a cryo-em map
52	c4c57C	Alignment	not modelled	23.3	21	PDB header: transferase Chain: C: PDB Molecule: nanobody; PDBTitle: structure of gak kinase in complex with a nanobody
53	c2vhca	Alignment	not modelled	23.2	33	PDB header: hydrolase Chain: A: PDB Molecule: archaemetzincin;

53	c2amqM	Alignment	not modelled	23.2	33	PDBTitle: crystal structure of archaeometzincin (amza) from archaeoglobus2 fulgidus at 1.45 a resolution 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
54	c2o5jN	Alignment	not modelled	23.2	33	PDB header: immune system Chain: H: PDB Molecule: protein igvh1-69-2,ig lambda chain v-ii region nig-84; PDBTitle: anti-cxcl13 scfv - e10
55	c5c6wh	Alignment	not modelled	23.1	22	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 rpba
56	c5tw1D	Alignment	not modelled	22.7	33	PDB header: protein binding/hydrolase Chain: H: PDB Molecule: igg1 fab chain h; PDBTitle: crystal structure of hyHEL-10 fv mutant(hd32a)-hen lysozyme2 complex
57	c1ic4H	Alignment	not modelled	22.4	10	Fold: Zinc hairpin stack Superfamily: Zinc hairpin stack Family: Zinc hairpin stack
58	d2dkta2	Alignment	not modelled	22.4	31	PDB header: transcription, transferase Chain: I: PDB Molecule: dna-directed rna polymerase ii 14.2kd PDBTitle: rna polymerase ii crystal form i at 3.1 a resolution
59	c1i3ql	Alignment	not modelled	22.3	14	PDB header: transcription Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta'; PDBTitle: x-ray crystal structure of escherichia coli sigma70 holoenzyme
60	c4igcD	Alignment	not modelled	21.9	33	PDB header: immune system Chain: B: PDB Molecule: scfv fragment 1f9; PDBTitle: crystal structure of phage library-derived single-chain fv fragment2 1f9 in complex with turkey egg-white lysozyme
61	c1dzB	Alignment	not modelled	21.8	22	PDB header: immunoglobulin Chain: A: PDB Molecule: mfe-23 recombinant antibody fragment; PDBTitle: mfe-23 an anti-carcinoembryonic antigen single-chain fv antibody
62	c1qokA	Alignment	not modelled	21.6	26	PDB header: ribosome Chain: Y: PDB Molecule: 60s ribosomal protein l37-a; PDBTitle: structure of the ribosomal 80s-eef2-sordarin complex from yeast2 obtained by docking atomic models for rna and protein components into3 a 11.7 a cryo-em map. this file, 1s1i, contains 60s subunit. the 40s4 ribosomal subunit is in file 1s1h.
63	c1s1iY	Alignment	not modelled	21.6	38	PDB header: immune system Chain: A: PDB Molecule: baculoviral iap repeat-containing protein 1e; PDBTitle: flagellin derivative in complex with the nlr protein naip5
64	c5yudA	Alignment	not modelled	21.4	26	PDB header: immune system/hydrolase Chain: H: PDB Molecule: ig vh,anti-lysozyme; PDBTitle: crystal structure of hyHEL-10 fv mutant (hy53a) complexed2 with hen egg lysozyme
65	c2dqEH	Alignment	not modelled	21.4	10	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
66	d1q9wb1	Alignment	not modelled	21.3	11	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
67	d3dgga1	Alignment	not modelled	21.3	26	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
68	d1n7ml1	Alignment	not modelled	21.2	10	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
69	d1xx6a2	Alignment	not modelled	21.1	32	Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: Type II thymidine kinase zinc finger
70	d1beca1	Alignment	not modelled	21.1	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
71	c2dqch	Alignment	not modelled	20.9	10	PDB header: immune system/hydrolase Chain: H: PDB Molecule: ig vh,anti-lysozyme; PDBTitle: crystal structure of hyHEL-10 fv mutant(hy33f) complexed2 with hen egg lysozyme
72	c2gkia	Alignment	not modelled	20.8	26	PDB header: immune system Chain: A: PDB Molecule: nuclease; PDBTitle: heavy and light chain variable single domains of an anti-dna binding2 antibody hydrolyze both double- and single-stranded dnas without3 sequence specificity
73	c2jsmA	Alignment	not modelled	20.7	33	PDB header: signaling protein Chain: A: PDB Molecule: polymyxin resistance protein pmrd; PDBTitle: antimicrobial resistance protein
74	d1w72l1	Alignment	not modelled	20.7	14	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
75	c3j3bj	Alignment	not modelled	20.5	29	PDB header: ribosome Chain: J: PDB Molecule: 60s ribosomal protein l11; PDBTitle: structure of the human 60s ribosomal proteins
76	c1ngbC	Alignment	not modelled	20.4	26	PDB header: immunoglobulin Chain: C: PDB Molecule: single-chain antibody fragment; PDBTitle: trivalent antibody fragment
77	d1ospl1	Alignment	not modelled	20.3	22	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: V set domains (antibody variable domain-like)
78	c6ehxB	Alignment	not modelled	19.7	22	PDB header: immune system Chain: B: PDB Molecule: scfv advance: increasing our knowledge of antibody PDBTitle: scfv advance: increasing our knowledge of antibody

						structural space to enable faster and better decision making in drug discovery
79	c3iydD_	Alignment	not modelled	19.7	33	PDB header: transcription/dna Chain: D: PDB Molecule: dna-directed rna polymerase subunit beta; PDBTitle: three-dimensional em structure of an intact activator-dependent transcription initiation complex
80	d2oslb1	Alignment	not modelled	19.2	25	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
81	c5iy9M_	Alignment	not modelled	19.1	18	PDB header: transcription, transferase/dna/rna Chain: M: PDB Molecule: transcription initiation factor iib; PDBTitle: human holo-pic in the initial transcribing state (no iis)
82	d1dl7h_	Alignment	not modelled	19.1	10	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
83	c5xcuA_	Alignment	not modelled	19.1	8	PDB header: immune system Chain: A: PDB Molecule: vh(s112c)-sarah chimera,vh(s112c)-sarah chimera; PDBTitle: crystal structure of 12ca5 fv-clasp fragment with its antigen peptide
84	c4f9pD_	Alignment	not modelled	19.0	29	PDB header: immune system Chain: D: PDB Molecule: 103.2 anti-btn3a1 antibody fragment; PDBTitle: crystal structure of the human btn3a1 ectodomain in complex with the 2 103.2 single chain antibody
85	d1nbyb1	Alignment	not modelled	19.0	15	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
86	d1ndmb1	Alignment	not modelled	19.0	10	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
87	d1bbjb1	Alignment	not modelled	18.9	10	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
88	d3c6la1	Alignment	not modelled	18.9	17	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
89	d1sm3h1	Alignment	not modelled	18.9	25	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
90	c5jvva_	Alignment	not modelled	18.7	44	PDB header: transferase Chain: A: PDB Molecule: beta-1,3-glucosyltransferase; PDBTitle: crystal structure and characterization an elongating gh family 162 beta-1,3-glucosyltransferase
91	c4xsxj_	Alignment	not modelled	18.6	33	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
92	d1q9rb1	Alignment	not modelled	18.6	7	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
93	d1igfl1	Alignment	not modelled	18.6	22	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
94	d1nj9b1	Alignment	not modelled	18.5	10	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)
95	c2dqjH_	Alignment	not modelled	18.5	10	PDB header: immune system/hydrolase Chain: H: PDB Molecule: ig vh,anti-lysozyme; PDBTitle: crystal structure of hyHEL-10 fv (wild-type) complexed with hen egg lysozyme at 1.8a resolution
96	c2dqjH_	Alignment	not modelled	18.5	10	PDB header: immune system/hydrolase Chain: H: PDB Molecule: ig vh,anti-lysozyme; PDBTitle: crystal structure of hyHEL-10 fv mutant (ly50a) complexed2 with hen egg lysozyme
97	c1j1pH_	Alignment	not modelled	18.5	10	PDB header: immune system/hydrolase Chain: H: PDB Molecule: ig vh,anti-lysozyme; PDBTitle: crystal structure of hyHEL-10 fv mutant ls91a complexed2 with hen egg white lysozyme
98	c3a6ch_	Alignment	not modelled	18.5	10	PDB header: immune system/hydrolase Chain: H: PDB Molecule: ig vh, anti-lysozyme; PDBTitle: crystal structure of hyHEL-10 fv mutant ln92d complexed with hen egg2 white lysozyme
99	d1j1ph_	Alignment	not modelled	18.5	10	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: V set domains (antibody variable domain-like)