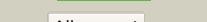
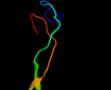
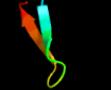
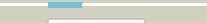
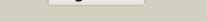
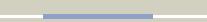
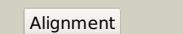
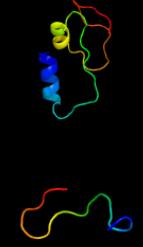
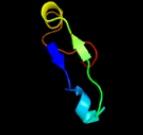
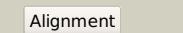
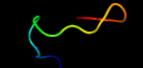
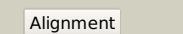
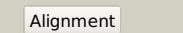
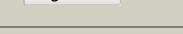
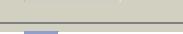
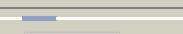


Phyre²

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Date	Tue Jul 23 14:50:08 BST 2019
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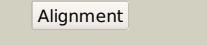
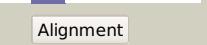
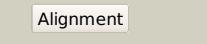
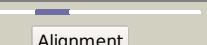
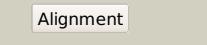
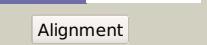
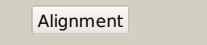
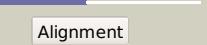
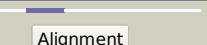
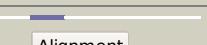
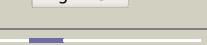
Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d2a2pa1	 Alignment		68.1	46	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Selenoprotein W-related
2	c3gn5B_	 Alignment		53.0	16	PDB header: dna binding protein Chain: B: PDB Molecule: hth-type transcriptional regulator mqsa (ygit/b3021); PDBTitle: structure of the e. coli protein mqsa (ygit/b3021)
3	d2fiya1	 Alignment		47.1	23	Fold: FdhE-like Superfamily: FdhE-like Family: FdhE-like
4	d1lv3a_	 Alignment		46.1	31	Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: Hypothetical zinc finger protein YacG
5	c2vjfB_	 Alignment		38.8	47	PDB header: ligase Chain: B: PDB Molecule: mdm4 protein; PDBTitle: crystal structure of the mdm2-mdmx ring domain heterodimer
6	c2f9iD_	 Alignment		38.7	30	PDB header: transferase Chain: D: PDB Molecule: acetyl-coenzyme a carboxyl transferase subunit PDBTitle: crystal structure of the carboxyltransferase subunit of acc from2 staphylococcus aureus
7	d2a4ha1	 Alignment		34.7	42	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Selenoprotein W-related
8	c4rvgaA_	 Alignment		31.3	20	PDB header: transferase Chain: A: PDB Molecule: d-mycarose 3-c-methyltransferase; PDBTitle: crystal structure of mtmc in complex with sam and tdp
9	c5aj3p_	 Alignment		30.4	46	PDB header: ribosome Chain: P: PDB Molecule: mitoribosomal protein bs16m, mrps16; PDBTitle: structure of the small subunit of the mammalian mitoribosome
10	c6k2kA_	 Alignment		29.2	37	PDB header: structural protein Chain: A: PDB Molecule: mitochondrial ubiquitin ligase activator of nfkb 1; PDBTitle: solution structure of mul1-ring domain
11	c4rula_	 Alignment		27.6	14	PDB header: isomerase/dna Chain: A: PDB Molecule: dna topoisomerase 1; PDBTitle: crystal structure of full-length e.coli topoisomerase i in complex2 with ssdna

12	c1yuzB_			26.9	20	PDB header: oxidoreductase Chain: B: PDB Molecule: nigerythrin; PDBTitle: partially reduced state of nigerythrin
13	d6rxna_			26.9	31	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
14	d2f9yb1			26.3	42	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Biotin dependent carboxylase carboxyltransferase domain
15	c2f9yB_			26.3	42	PDB header: ligase Chain: B: PDB Molecule: acetyl-coenzyme a carboxyl transferase subunit PDBTitle: the crystal structure of the carboxyltransferase subunit of acc from2 escherichia coli
16	c2kn9A_			26.1	25	PDB header: electron transport Chain: A: PDB Molecule: rubredoxin; PDBTitle: solution structure of zinc-substituted rubredoxin b (rv3250c) from2 mycobacterium tuberculosis. seattle structural genomics center for3 infectious disease target mytud.01635.a
17	d1qcva_			25.9	25	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
18	d1dx8a_			25.8	31	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
19	d1s24a_			25.3	31	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
20	c1s24A_			25.3	31	PDB header: electron transport Chain: A: PDB Molecule: rubredoxin 2; PDBTitle: rubredoxin domain ii from pseudomonas oleovorans
21	c4u3eA_		not modelled	25.2	20	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleoside triphosphate reductase; PDBTitle: anaerobic ribonucleotide reductase
22	c5ntbB_		not modelled	24.9	24	PDB header: protease inhibitor Chain: B: PDB Molecule: papain inhibitor; PDBTitle: streptomyces papain inhibitor (spi)
23	d1h7va_		not modelled	24.9	31	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
24	c2obkE_		not modelled	24.7	25	PDB header: structural genomics, unknown function Chain: E: PDB Molecule: selt/selw/selh selenoprotein domain; PDBTitle: x-ray structure of the putative se binding protein from pseudomonas2 fluorescens. northeast structural genomics consortium target plr6.
25	d1iu5a_		not modelled	24.7	38	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
26	d1pfta_		not modelled	24.3	29	Fold: Rubredoxin-like Superfamily: Zinc beta-ribbon Family: Transcriptional factor domain
27	d1jj2y_		not modelled	24.2	25	Fold: Rubredoxin-like Superfamily: Zn-binding ribosomal proteins Family: Ribosomal protein L37ae
28	d1iroa_		not modelled	24.0	31	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
						PDB header: ribosome

29	c3j21i	Alignment	not modelled	24.0	19	Chain: I: PDB Molecule: 50s ribosomal protein l13p; PDBTitle: promiscuous behavior of proteins in archaeal ribosomes revealed by2 cryo-em: implications for evolution of eukaryotic ribosomes (50S ribosomal proteins)
30	c2v3bB	Alignment	not modelled	24.0	25	PDB header: oxidoreductase Chain: B: PDB Molecule: rubredoxin 2; PDBTitle: crystal structure of the electron transfer complex2 rubredoxin - rubredoxin reductase from pseudomonas3 aeruginosa.
31	c2hr5B	Alignment	not modelled	23.9	21	PDB header: metal binding protein Chain: B: PDB Molecule: rubrerythrin; PDBTitle: pf1283- rubrerythrin from pyrococcus furiosus iron bound form
32	c2zkrz	Alignment	not modelled	23.8	19	PDB header: ribosomal protein/rna Chain: Z: PDB Molecule: e site t-rna; 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
33	c1yshD	Alignment	not modelled	23.7	25	PDB header: structural protein/rna Chain: D: PDB Molecule: ribosomal protein l37a; PDBTitle: localization and dynamic behavior of ribosomal protein l30e
34	d2dsxa1	Alignment	not modelled	23.6	31	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
35	d1vqoz1	Alignment	not modelled	23.4	19	Fold: Rubredoxin-like Superfamily: Zn-binding ribosomal proteins Family: Ribosomal protein L37ae
36	c6g5iy	Alignment	not modelled	23.3	32	PDB header: ribosome Chain: Y: PDB Molecule: 40s ribosomal protein s24; PDBTitle: cryo-em structure of a late human pre-40s ribosomal subunit - state r
37	c3j39g	Alignment	not modelled	23.1	38	PDB header: ribosome Chain: G: PDB Molecule: 60s ribosomal protein l7a; PDBTitle: structure of the d. melanogaster 60s ribosomal proteins
38	d1brfa	Alignment	not modelled	23.1	38	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
39	d2rdva	Alignment	not modelled	23.1	38	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
40	c1nuiA	Alignment	not modelled	23.0	22	PDB header: replication Chain: A: PDB Molecule: dna primase/helicase; PDBTitle: crystal structure of the primase fragment of bacteriophage t7 primase-2 helicase protein
41	c3izrm	Alignment	not modelled	23.0	25	PDB header: ribosome Chain: M: PDB Molecule: 60s ribosomal protein l23 (l14p); PDBTitle: localization of the large subunit ribosomal proteins into a 5.5 a2 cryo-em map of triticum aestivum translating 80s ribosome
42	c1s1i9	Alignment	not modelled	22.8	25	PDB header: ribosome Chain: 9: PDB Molecule: 60s ribosomal protein l43; 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.
43	c4g6vB	Alignment	not modelled	22.6	38	PDB header: toxin Chain: B: PDB Molecule: cdii; PDBTitle: cdia-ct/cdii toxin and immunity complex from burkholderia pseudomallei
44	c3dexA	Alignment	not modelled	22.6	33	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: sav_2001; PDBTitle: crystal structure of sav_2001 protein from streptomyces2 avermitilis, northeast structural genomics consortium3 target svr107.
45	c3j39p	Alignment	not modelled	22.3	25	PDB header: ribosome Chain: P: PDB Molecule: 60s ribosomal protein l17; PDBTitle: structure of the d. melanogaster 60s ribosomal proteins
46	c5zi6E	Alignment	not modelled	22.3	21	PDB header: ligase Chain: E: PDB Molecule: rna-binding e3 ubiquitin-protein ligase mex3c; PDBTitle: the ring domain structure of mex-3c
47	d4rxna	Alignment	not modelled	22.2	31	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
48	c2hdPB	Alignment	not modelled	22.1	21	PDB header: ligase Chain: B: PDB Molecule: ubiquitin-protein ligase e3 mdm2; PDBTitle: solution structure of hdm2 ring finger domain
49	d1l1ta3	Alignment	not modelled	22.1	18	Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: C-terminal, Zn-finger domain of MutM-like DNA repair proteins
50	c2ojIB	Alignment	not modelled	21.9	30	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein; PDBTitle: crystal structure of q7waf1_borp from bordetella parapertussis.2 northeast structural genomics target bpr68.
51	c2ms3A	Alignment	not modelled	21.8	25	PDB header: electron transport Chain: A: PDB Molecule: anaerobic nitric oxide reductase flavorubredoxin; PDBTitle: the nmr structure of the rubredoxin domain of the no reductase2 flavorubredoxin from escherichia coli
52	d1nw2a	Alignment	not modelled	21.8	24	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Thioltransferase
53	c3j3bg	Alignment	not modelled	21.7	33	PDB header: ribosome Chain: G: PDB Molecule: 60s ribosomal protein l7a; PDBTitle: structure of the human 60s ribosomal proteins
						PDB header: ribosome

54	c2qa4Z	Alignment	not modelled	21.7	19	Chain: Z: PDB Molecule: 50s ribosomal protein l37ae; PDBTitle: a more complete structure of the the I7/I12 stalk of the2 haloarcula marismortui 50s large ribosomal subunit
55	d1ffkw	Alignment	not modelled	21.6	25	Fold: Rubredoxin-like Superfamily: Zn-binding ribosomal proteins Family: Ribosomal protein L37ae
56	c3eb6A	Alignment	not modelled	21.6	40	PDB header: apoptosis, ligase Chain: A: PDB Molecule: baculoviral iap repeat-containing protein 3; PDBTitle: structure of the ciap2 ring domain bound to ubch5b
57	c4mo1B	Alignment	not modelled	21.4	15	PDB header: transcription regulator Chain: B: PDB Molecule: antitermination protein q; PDBTitle: crystal structure of antitermination protein q from bacteriophage2 lambda. northeast structural genomics consortium target or18a.
58	c2p0gB	Alignment	not modelled	20.9	36	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: selenoprotein w-related protein; PDBTitle: crystal structure of selenoprotein w-related protein from vibrio2 cholerae. northeast structural genomics target vcr75
59	d2fa8a1	Alignment	not modelled	20.9	27	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Selenoprotein W-related
60	d1tdza3	Alignment	not modelled	20.9	18	Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: C-terminal, Zn-finger domain of MutM-like DNA repair proteins
61	c3izci	Alignment	not modelled	20.8	25	PDB header: ribosome Chain: I: PDB Molecule: 60s ribosomal protein rpl10 (l10e); PDBTitle: localization of the large subunit ribosomal proteins into a 6.1 a2 cryo-em map of saccharomyces cerevisiae translating 80s ribosome
62	c2z1dA	Alignment	not modelled	20.7	22	PDB header: metal binding protein Chain: A: PDB Molecule: hydrogenase expression/formation protein hyph; PDBTitle: crystal structure of [nife] hydrogenase maturation protein, hyph from2 thermococcus kodakaraensis
63	c3a44D	Alignment	not modelled	20.6	22	PDB header: metal binding protein Chain: D: PDB Molecule: hydrogenase nickel incorporation protein hypha; PDBTitle: crystal structure of hypha in the dimeric form
64	c3jyw9	Alignment	not modelled	20.2	25	PDB header: ribosome Chain: 9: PDB Molecule: 60s ribosomal protein l43; PDBTitle: structure of the 60s proteins for eukaryotic ribosome based on cryo-em2 map of thermomyces lanuginosus ribosome at 8.9a resolution
65	c4b6ap	Alignment	not modelled	20.1	25	PDB header: ribosome Chain: P: PDB Molecule: 60s ribosomal protein l17-a; PDBTitle: cryo-em structure of the 60s ribosomal subunit in complex2 with arx1 and rei1
66	c3hi2C	Alignment	not modelled	19.8	20	PDB header: dna binding protein/toxin Chain: C: PDB Molecule: shth-type transcriptional regulator mqsa(ygit); PDBTitle: structure of the n-terminal domain of the e. coli antitoxin mqsa2 (ygit/b3021) in complex with the e. coli toxin mqsr (ygiu/b3022)
67	c3d30A	Alignment	not modelled	19.7	15	PDB header: peptidoglycan-binding protein Chain: A: PDB Molecule: expansin like protein; PDBTitle: structure of an expansin like protein from bacillus subtilis at 1.9a2 resolution
68	c2ma6A	Alignment	not modelled	19.7	19	PDB header: ligase Chain: A: PDB Molecule: e3 ubiquitin-protein ligase rnf123; PDBTitle: solution nmr structure of the ring finger domain from the kip12 ubiquitination-promoting e3 complex protein 1 (kpc1/rnf123) from homo3 sapiens, northeast structural genomics consortium (nesg) target4 hr8700a
69	c2kw0A	Alignment	not modelled	19.6	20	PDB header: oxidoreductase Chain: A: PDB Molecule: ccmh protein; PDBTitle: solution structure of n-terminal domain of ccmh from escherichia.coli
70	d2drpa2	Alignment	not modelled	19.5	63	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
71	d1rb9a	Alignment	not modelled	19.5	31	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
72	c2ecgA	Alignment	not modelled	19.4	33	PDB header: apoptosis Chain: A: PDB Molecule: baculoviral iap repeat-containing protein 4; PDBTitle: solution structure of the ring domain of the baculoviral2 iap repeat-containing protein 4 from homo sapiens
73	c5o5jR	Alignment	not modelled	19.3	13	PDB header: ribosome Chain: R: PDB Molecule: 30s ribosomal protein s18 2; PDBTitle: structure of the 30s small ribosomal subunit from mycobacterium2 smegmatis
74	d1wwra1	Alignment	not modelled	18.9	11	Fold: Cytidine deaminase-like Superfamily: Cytidine deaminase-like Family: Deoxycytidylate deaminase-like
75	d1hk8a	Alignment	not modelled	18.6	13	Fold: PFL-like glycol radical enzymes Superfamily: PFL-like glycol radical enzymes Family: Class III anaerobic ribonucleotide reductase NRDD subunit
76	c1hk8A	Alignment	not modelled	18.6	13	PDB header: oxidoreductase Chain: A: PDB Molecule: anaerobic ribonucleotide-triphosphate reductase; PDBTitle: structural basis for allosteric substrate specificity regulation in class iii ribonucleotide reductases: nrdd in complex with dgtp
77	d1k82a3	Alignment	not modelled	18.6	12	Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: C-terminal, Zn-finger domain of MutM-like DNA repair

						proteins
78	c2ecIA_		Alignment	not modelled	18.1	27 PDB header: metal binding protein Chain: A: PDB Molecule: ring-box protein 2; PDBTitle: solution structure of the ring domain of the human ring-box 2 protein 2
79	d1r2za3		Alignment	not modelled	18.0	18 Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: C-terminal, Zn-finger domain of MutM-like DNA repair proteins
80	c2hl7A_		Alignment	not modelled	17.9	30 PDB header: oxidoreductase Chain: A: PDB Molecule: cytochrome c-type biogenesis protein ccmh; PDBTitle: crystal structure of the periplasmic domain of ccmh from pseudomonas2 aeruginosa
81	c5aaqA_		Alignment	not modelled	17.7	38 PDB header: calcium-binding protein Chain: A: PDB Molecule: calcium-binding and coiled-coil domain-containing protein PDBTitle: tbk1 recruitment to cytosol-invading salmonella induces2 anti-bacterial autophagy
82	c4esjA_		Alignment	not modelled	17.5	36 PDB header: hydrolase/dna Chain: A: PDB Molecule: type-2 restriction enzyme dppn; PDBTitle: restriction endonuclease dppn in complex with target dna
83	d1k3xa3		Alignment	not modelled	17.5	12 Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: C-terminal, Zn-finger domain of MutM-like DNA repair proteins
84	d1lko2		Alignment	not modelled	17.2	24 Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
85	c3cc4Z_		Alignment	not modelled	17.2	19 PDB header: ribosome Chain: Z: PDB Molecule: 50s ribosomal protein l37ae; PDBTitle: co-crystal structure of anisomycin bound to the 50s ribosomal subunit
86	c3lpeF_		Alignment	not modelled	16.8	47 PDB header: transferase Chain: F: PDB Molecule: dna-directed rna polymerase subunit e"; PDBTitle: crystal structure of spt4/5gn heterodimer complex from methanococcus2 jannaschii
87	d1oxna		Alignment	not modelled	16.7	20 Fold: Inhibitor of apoptosis (IAP) repeat Superfamily: Inhibitor of apoptosis (IAP) repeat Family: Inhibitor of apoptosis (IAP) repeat
88	c3zf7o_		Alignment	not modelled	16.7	19 PDB header: ribosome Chain: O: PDB Molecule: 60s ribosomal protein l13a, putative; PDBTitle: high-resolution cryo-electron microscopy structure of the trypanosoma2 brucei ribosome
89	c4a17Y_		Alignment	not modelled	16.5	25 PDB header: ribosome Chain: Y: PDB Molecule: rpl37a; 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 2.
90	c4xlgA_		Alignment	not modelled	16.4	25 PDB header: hydrolase Chain: A: PDB Molecule: structure-specific endonuclease subunit slx1; PDBTitle: c. glabrata slx1 in complex with slx4ccd.
91	d1jd5a		Alignment	not modelled	16.3	18 Fold: Inhibitor of apoptosis (IAP) repeat Superfamily: Inhibitor of apoptosis (IAP) repeat Family: Inhibitor of apoptosis (IAP) repeat
92	d1yuza2		Alignment	not modelled	16.2	27 Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
93	c6ff4t_		Alignment	not modelled	16.2	20 PDB header: splicing Chain: T: PDB Molecule: PDBTitle: human bact spliceosome core structure
94	d1lyma		Alignment	not modelled	16.2	38 Fold: RING/U-box Superfamily: RING/U-box Family: RING finger domain, C3HC4
95	d1xb0b_		Alignment	not modelled	16.1	24 Fold: Inhibitor of apoptosis (IAP) repeat Superfamily: Inhibitor of apoptosis (IAP) repeat Family: Inhibitor of apoptosis (IAP) repeat
96	d2jz6a1		Alignment	not modelled	16.0	23 Fold: L28p-like Superfamily: L28p-like Family: Ribosomal protein L28
97	c2naxA_		Alignment	not modelled	16.0	33 PDB header: metal binding protein Chain: A: PDB Molecule: protein pcf11; PDBTitle: structure of cchc zinc finger domain of pcf11
98	d2conal		Alignment	not modelled	16.0	26 Fold: Rubredoxin-like Superfamily: NOB1 zinc finger-like Family: NOB1 zinc finger-like
99	c1z6uA_		Alignment	not modelled	15.7	40 PDB header: ligase Chain: A: PDB Molecule: np95-like ring finger protein isoform b; PDBTitle: np95-like ring finger protein isoform b [homo sapiens]