Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0084_(hycD)_92325_93275
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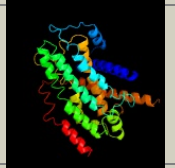
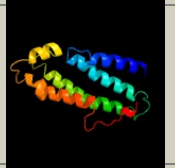
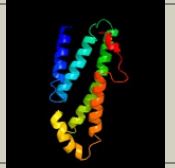
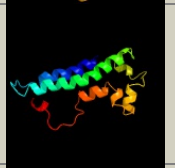
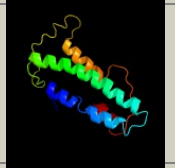
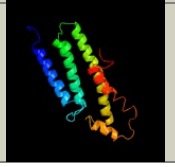
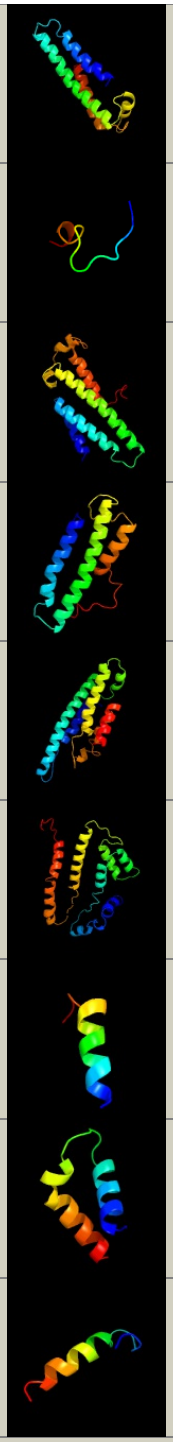
Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6gcs1_	Alignment		100.0	18	**PDB header:**oxidoreductase **Chain:** 1: **PDB Molecule:**nd1 subunit (nu1m); **PDBTitle:** cryo-em structure of respiratory complex i from yarrowia lipolytica
2	c6humA_	Alignment		100.0	21	**PDB header:**proton transport **Chain:** A: **PDB Molecule:**nad(p)h-quinone oxidoreductase subunit 1; **PDBTitle:** structure of the photosynthetic complex i from thermosynechococcus2 elongatus
3	c6cfwM_	Alignment		100.0	22	**PDB header:**membrane protein **Chain:** M: **PDB Molecule:**mbh13 nadh dehydrogenase subunit; **PDBTitle:** cryoem structure of a respiratory membrane-bound hydrogenase
4	c5lc5H_	Alignment		100.0	21	**PDB header:**oxidoreductase **Chain:** H: **PDB Molecule:**nadh-ubiquinone oxidoreductase chain 1; **PDBTitle:** structure of mammalian respiratory complex i, class2
5	c4he8H_	Alignment		100.0	21	**PDB header:**oxidoreductase **Chain:** H: **PDB Molecule:**nadh-quinone oxidoreductase subunit 8; **PDBTitle:** crystal structure of the membrane domain of respiratory complex i from2 thermus thermophilus
6	c4heaT_	Alignment		89.1	13	**PDB header:**oxidoreductase **Chain:** T: **PDB Molecule:**nadh-quinone oxidoreductase subunit 12; **PDBTitle:** crystal structure of the entire respiratory complex i from thermus2 thermophilus
7	c3rkoL_	Alignment		87.2	15	**PDB header:**oxidoreductase **Chain:** L: **PDB Molecule:**nadh-quinone oxidoreductase subunit l; **PDBTitle:** crystal structure of the membrane domain of respiratory complex i from2 e. coli at 3.0 angstrom resolution
8	c5ldwL_	Alignment		73.9	12	**PDB header:**oxidoreductase **Chain:** L: **PDB Molecule:**nadh-ubiquinone oxidoreductase chain 5; **PDBTitle:** structure of mammalian respiratory complex i, class1
9	c6gcs5_	Alignment		65.3	18	**PDB header:**oxidoreductase **Chain:** 5: **PDB Molecule:**nd5 subunit (nu5m); **PDBTitle:** cryo-em structure of respiratory complex i from yarrowia lipolytica
10	c6gcs4_	Alignment		61.7	16	**PDB header:**oxidoreductase **Chain:** 4: **PDB Molecule:**nd4 subunit (nu4m); **PDBTitle:** cryo-em structure of respiratory complex i from yarrowia lipolytica
11	c6humF_	Alignment		57.4	11	**PDB header:**proton transport **Chain:** F: **PDB Molecule:**nadh dehydrogenase subunit 5; **PDBTitle:** structure of the photosynthetic complex i from thermosynechococcus2 elongatus

12	c6g2jL_	Alignment		54.1	17	**PDB header:**oxidoreductase **Chain:** L: **PDB Molecule:**nadh-ubiquinone oxidoreductase chain 5; **PDBTitle:** mouse mitochondrial complex i in the active state
13	c1q2iA_	Alignment		47.4	44	**PDB header:**antitumor protein **Chain:** A: **PDB Molecule:**pnc27; **PDBTitle:** nmr solution structure of a peptide from the mdm-2 binding2 domain of the p53 protein that is selectively cytotoxic to3 cancer cells
14	c6gcs2_	Alignment		43.6	12	**PDB header:**oxidoreductase **Chain:** 2: **PDB Molecule:**nd2 subunit (nu2m); **PDBTitle:** cryo-em structure of respiratory complex i from yarrowia lipolytica
15	c5ldwN_	Alignment		32.1	12	**PDB header:**oxidoreductase **Chain:** N: **PDB Molecule:**nadh-ubiquinone oxidoreductase chain 2; **PDBTitle:** structure of mammalian respiratory complex i, class1
16	c4he8l_	Alignment		30.1	21	**PDB header:**oxidoreductase **Chain:** l: **PDB Molecule:**nadh-quinone oxidoreductase subunit 14; **PDBTitle:** crystal structure of the membrane domain of respiratory complex i from2 thermus thermophilus
17	c6o7ua_	Alignment		27.5	13	**PDB header:**membrane protein **Chain:** A: **PDB Molecule:** **PDBTitle:** saccharomyces cerevisiae v-atpase stv1-vo
18	c2jpkA_	Alignment		26.9	28	**PDB header:**antimicrobial protein **Chain:** A: **PDB Molecule:**bacteriocin lactococcin-g subunit beta; **PDBTitle:** lactococcin g-b in dpc
19	d1xn8a_	Alignment		26.8	21	**Fold:**Hypothetical protein YqbG **Superfamily:**Hypothetical protein YqbG **Family:**Hypothetical protein YqbG
20	d1lbqa_	Alignment		24.3	18	**Fold:**Chelatase-like **Superfamily:**Chelatase **Family:**Ferrochelatase
21	c2jpmA_	Alignment	not modelled	24.2	28	**PDB header:**antimicrobial protein **Chain:** A: **PDB Molecule:**bacteriocin lactococcin-g subunit beta; **PDBTitle:** lactococcin g-b in tfe
22	c5xtdi_	Alignment	not modelled	19.0	13	**PDB header:**oxidoreductase/electron transport **Chain:** I: **PDB Molecule:**nadh dehydrogenase [ubiquinone] 1 alpha subcomplex subunit **PDBTitle:** cryo-em structure of human respiratory complex i
23	c5ncaA_	Alignment	not modelled	14.6	13	**PDB header:**structural protein **Chain:** A: **PDB Molecule:**competence protein comgc; **PDBTitle:** solution structure of comgc from streptococcus pneumoniae
24	c6cfwH_	Alignment	not modelled	14.0	15	**PDB header:**membrane protein **Chain:** H: **PDB Molecule:**monovalent cation/h+ antiporter subunit d; **PDBTitle:** cryoem structure of a respiratory membrane-bound hydrogenase
25	c3lygA_	Alignment	not modelled	13.7	18	**PDB header:**structural genomics, unknown function **Chain:** A: **PDB Molecule:**ntf2-like protein of unknown function; **PDBTitle:** crystal structure of ntf2-like protein of unknown function2 (yp_270605.1) from colwellia psychrerythraea 34h at 1.61 a resolution
26	c6g2jN_	Alignment	not modelled	12.2	18	**PDB header:**oxidoreductase **Chain:** N: **PDB Molecule:**nadh-ubiquinone oxidoreductase chain 2; **PDBTitle:** mouse mitochondrial complex i in the active state
27	c5yq7L_	Alignment	not modelled	12.1	24	**PDB header:**photosynthesis **Chain:** L: **PDB Molecule:**precursor for l subunits of photosynthetic reaction center; **PDBTitle:** cryo-em structure of the rc-lh core complex from roseiflexus2 castenholzii
28	d1oysm	Alignment	not modelled	11.8	24	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M

28	d1eysm_	Alignment	not modelled	11.6	24	subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
29	d2i5nl1	Alignment	not modelled	11.5	22	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
30	d2j8cm1	Alignment	not modelled	11.0	22	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
31	c2k8fB_	Alignment	not modelled	9.6	25	**PDB header:**transferase/transcription **Chain:** B: **PDB Molecule:**cellular tumor antigen p53; **PDBTitle:** structural basis for the regulation of p53 function by p300
32	c6humB_	Alignment	not modelled	9.4	11	**PDB header:**proton transport **Chain:** B: **PDB Molecule:**nad(p)h-quinone oxidoreductase subunit 2; **PDBTitle:** structure of the photosynthetic complex i from thermosynechococcus2 elongatus
33	c5ldwM_	Alignment	not modelled	9.3	12	**PDB header:**oxidoreductase **Chain:** M: **PDB Molecule:**nadh-ubiquinone oxidoreductase chain 4; **PDBTitle:** structure of mammalian respiratory complex i, class1
34	d2ahua1	Alignment	not modelled	9.0	20	**Fold:**NagB/RpiA/CoA transferase-like **Superfamily:**NagB/RpiA/CoA transferase-like **Family:**CoA transferase beta subunit-like
35	d2i5nm1	Alignment	not modelled	8.8	27	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
36	d2axta1	Alignment	not modelled	8.7	29	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
37	d2j8cl1	Alignment	not modelled	7.6	32	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
38	d2hrca1	Alignment	not modelled	7.6	23	**Fold:**Chelatase-like **Superfamily:**Chelatase **Family:**Ferrochelatase
39	c2lweA_	Alignment	not modelled	7.3	4	**PDB header:**signaling protein **Chain:** A: **PDB Molecule:**probable atp-dependent rna helicase ddx58; **PDBTitle:** solution structure of mutant (t170e) second card of human rig-i
40	c2vxsB_	Alignment	not modelled	7.2	18	**PDB header:**cytokine **Chain:** B: **PDB Molecule:**interleukin-17a; **PDBTitle:** structure of il-17a in complex with a potent, fully human2 neutralising antibody
41	d2axtd1	Alignment	not modelled	6.8	27	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
42	c2dgrA_	Alignment	not modelled	6.5	20	**PDB header:**rna binding protein **Chain:** A: **PDB Molecule:**ring finger and kh domain-containing protein 1; **PDBTitle:** solution structure of the second kh domain in ring finger2 and kh domain containing protein 1
43	c3dpgA_	Alignment	not modelled	6.2	47	**PDB header:**hydrolase/dna **Chain:** A: **PDB Molecule:**sgrair restriction enzyme; **PDBTitle:** sgrai with noncognate dna bound
44	d1un8a4	Alignment	not modelled	5.9	22	**Fold:**DAK1/DegV-like **Superfamily:**DAK1/DegV-like **Family:**DAK1
45	d1l9bm_	Alignment	not modelled	5.9	22	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
46	d1eysl_	Alignment	not modelled	5.9	24	**Fold:**Bacterial photosystem II reaction centre, L and M subunits **Superfamily:**Bacterial photosystem II reaction centre, L and M subunits **Family:**Bacterial photosystem II reaction centre, L and M subunits
47	d2hk6a1	Alignment	not modelled	5.9	27	**Fold:**Chelatase-like **Superfamily:**Chelatase **Family:**Ferrochelatase
48	c2rmrA_	Alignment	not modelled	5.8	21	**PDB header:**transcription **Chain:** A: **PDB Molecule:**paired amphipathic helix protein sin3a; **PDBTitle:** solution structure of msin3a pah1 domain
49	c2dbhA_	Alignment	not modelled	5.4	23	**PDB header:**signaling protein **Chain:** A: **PDB Molecule:**tumor necrosis factor receptor superfamily **PDBTitle:** solution structure of the carboxyl-terminal card-like2 domain in human tnfr-related death receptor-6
50	c4q2uM_	Alignment	not modelled	5.1	21	**PDB header:**toxin/toxin repressor **Chain:** M: **PDB Molecule:**antitoxin dinj; **PDBTitle:** crystal structure of the e. coli dinj-yafq toxin-antitoxin complex
51	c2eqeA_	Alignment	not modelled	5.1	57	**PDB header:**hydrolase **Chain:** A: **PDB Molecule:**tumor necrosis factor, alpha-induced protein 3; **PDBTitle:** solution structure of the fourth a20-type zinc finger2 domain from human tumor necrosis factor, alpha-induced3 protein3