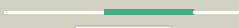


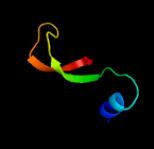
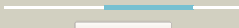
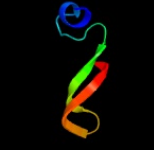
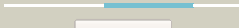
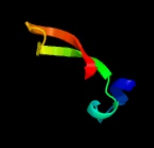


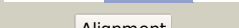
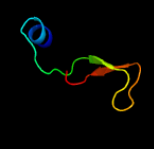
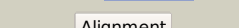

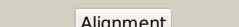
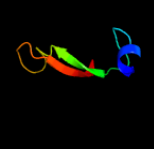
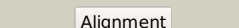

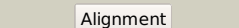




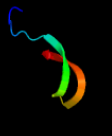

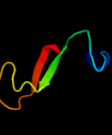




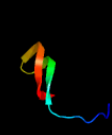


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1116A (-) _1241120_1241395
Date	Wed Jul 31 22:05:19 BST 2019
Unique Job ID	2c32a4069e18819f

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1a5za2	 Alignment		43.5	20	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
2	d1llda2	 Alignment		39.0	14	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
3	d1pzga2	 Alignment		35.8	23	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
4	d1oc4a2	 Alignment		35.0	11	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
5	d1ez4a2	 Alignment		29.8	11	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
6	d1y6ja2	 Alignment		29.6	31	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
7	d1llca2	 Alignment		27.9	14	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
8	d1i10a2	 Alignment		26.4	17	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
9	d1gv0a2	 Alignment		24.2	17	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
10	d1guza2	 Alignment		21.2	17	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
11	d1t2da2	 Alignment		20.9	17	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain

12	d1o6za2	Alignment		18.7	26	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
13	d1ojuu2	Alignment		18.0	34	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
14	c1ojuA_	Alignment		12.7	31	PDB header: oxidoreductase Chain: A: PDB Molecule: malate dehydrogenase; PDBTitle: 2.8 a resolution structure of malate dehydrogenase from2 archaeoglobus fulgidus in complex with etheno-nad.
15	d9ldta2	Alignment		11.3	20	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
16	d1y7ta2	Alignment		10.4	20	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
17	d1jca4	Alignment		9.4	29	Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair
18	c4tvoB_	Alignment		8.6	20	PDB header: oxidoreductase Chain: B: PDB Molecule: malate dehydrogenase; PDBTitle: structure of malate dehydrogenase from mycobacterium tuberculosis
19	c2d4aC_	Alignment		8.5	20	PDB header: oxidoreductase Chain: C: PDB Molecule: malate dehydrogenase; PDBTitle: structure of the malate dehydrogenase from aeropyrum pernix
20	d1uxja2	Alignment		8.2	14	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
21	c1y6jA_	Alignment	not modelled	8.0	31	PDB header: oxidoreductase Chain: A: PDB Molecule: l-lactate dehydrogenase; PDBTitle: l-lactate dehydrogenase from clostridium thermocellum cth-1135
22	d1civa2	Alignment	not modelled	7.0	14	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
23	c1ur5C_	Alignment	not modelled	6.8	17	PDB header: oxidoreductase Chain: C: PDB Molecule: malate dehydrogenase; PDBTitle: stabilization of a tetrameric malate dehydrogenase by introduction of2 a disulfide bridge at the dimer/dimer interface
24	d1ldna2	Alignment	not modelled	6.3	11	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
25	c1pzfD_	Alignment	not modelled	6.1	23	PDB header: oxidoreductase Chain: D: PDB Molecule: lactate dehydrogenase; PDBTitle: t.gondii ldh1 ternary complex with apad+ and oxalate
26	d2ldxa2	Alignment	not modelled	6.1	22	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
27	c1ldbA_	Alignment	not modelled	5.8	17	PDB header: oxidoreductase(choh(d)-nad(a)) Chain: A: PDB Molecule: apo-l-lactate dehydrogenase; PDBTitle: structure determination and refinement of bacillus2 stearothermophilus lactate dehydrogenase
28	d1i0za2	Alignment	not modelled	5.6	26	Fold: LDH C-terminal domain-like Superfamily: LDH C-terminal domain-like Family: Lactate & malate dehydrogenases, C-terminal domain
29	c6gscA	Alignment	not modelled	5.5	26	PDB header: oxidoreductase Chain: A: PDB Molecule: malate dehydrogenase;

29	c0q3sA_	Alignment	not modelled	5.3	29	PDBTitle: crystal structure of ignicoccus islandicus malate dehydrogenase co-2 crystallized with 10 mm tb-xo4 PDB header: oxidoreductase
30	c4m1qB_	Alignment	not modelled	5.4	17	Chain: B: PDB Molecule: l-lactate dehydrogenase; PDBTitle: crystal structure of l-lactate dehydrogenase from bacillus2 selenitireducens mls10, nysgrc target 029814. PDB header: oxidoreductase
31	c1gv1D_	Alignment	not modelled	5.3	17	Chain: D: PDB Molecule: malate dehydrogenase; PDBTitle: structural basis for thermophilic protein stability:2 structures of thermophilic and mesophilic malate3 dehydrogenases