

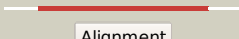

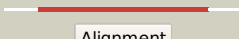



















Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0768_ (aldA)_860915_862384
Date	Fri Jul 26 01:50:35 BST 2019
Unique Job ID	f5430fa6affdd3b

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4f9iA_	 Alignment		100.0	29	PDB header: oxidoreductase Chain: A: PDB Molecule: proline dehydrogenase/delta-1-pyrroline-5-carboxylate PDBTitle: crystal structure of proline utilization a (puta) from geobacter2 sulfurreducens pca
2	c4o5hD_	 Alignment		100.0	39	PDB header: oxidoreductase Chain: D: PDB Molecule: phenylacetaldehyde dehydrogenase; PDBTitle: x-ray crystal structure of a putative phenylacetaldehyde dehydrogenase2 from burkholderia cenocepacia
3	c3ed6B_	 Alignment		100.0	36	PDB header: oxidoreductase Chain: B: PDB Molecule: betaine aldehyde dehydrogenase; PDBTitle: 1.7 angstrom resolution crystal structure of betaine aldehyde2 dehydrogenase (betb) from staphylococcus aureus
4	c5ur2C_	 Alignment		100.0	30	PDB header: oxidoreductase Chain: C: PDB Molecule: bifunctional protein puta; PDBTitle: crystal structure of proline utilization a (puta) from bdellovibrio2 bacteriovorus inactivated by n-propargylglycine
5	d1bxsA_	 Alignment		100.0	36	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
6	c3iwwB_	 Alignment		100.0	37	PDB header: oxidoreductase Chain: B: PDB Molecule: aminoaldehyde dehydrogenase; PDBTitle: crystal structure of aminoaldehyde dehydrogenase 1 from pisum sativum2 (psamadh1)
7	d1a4sa_	 Alignment		100.0	32	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
8	c3u4jB_	 Alignment		100.0	36	PDB header: oxidoreductase Chain: B: PDB Molecule: nad-dependent aldehyde dehydrogenase; PDBTitle: crystal structure of nad-dependent aldehyde dehydrogenase from2 sinorhizobium meliloti
9	c4pt3C_	 Alignment		100.0	37	PDB header: oxidoreductase Chain: C: PDB Molecule: aldehyde dehydrogenase; PDBTitle: nadph complex structure of aldehyde dehydrogenase from bacillus cereus
10	c2o2qA_	 Alignment		100.0	31	PDB header: oxidoreductase Chain: A: PDB Molecule: formyltetrahydrofolate dehydrogenase; PDBTitle: crystal structure of the c-terminal domain of rat2 10'formyltetrahydrofolate dehydrogenase in complex with nadp
11	c4pxlB_	 Alignment		100.0	36	PDB header: oxidoreductase Chain: B: PDB Molecule: cytosolic aldehyde dehydrogenase rf2c; PDBTitle: structure of zm aldH-2-3 (rf2c) in complex with nad

12	c6fk3B_	Alignment		100.0	30	PDB header: oxidoreductase Chain: B: PDB Molecule: aldehyde dehydrogenase; PDBTitle: structure and function of aldehyde dehydrogenase from thermus2 thermophilus: an enzyme with an evolutionarily-distinct c-terminal3 arm (recombinant full-length protein in complex with propanal)
13	d1o9ja_	Alignment		100.0	34	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
14	c2d4eB_	Alignment		100.0	37	PDB header: oxidoreductase Chain: B: PDB Molecule: 5-carboxymethyl-2-hydroxymuconate semialdehyde PDBTitle: crystal structure of the hpcc from thermus thermophilus hb8
15	c2ve5H_	Alignment		100.0	36	PDB header: oxidoreductase Chain: H: PDB Molecule: betaine aldehyde dehydrogenase; PDBTitle: crystallographic structure of betaine aldehyde2 dehydrogenase from pseudomonas aeruginosa
16	d1wnda_	Alignment		100.0	34	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
17	c3rh9A_	Alignment		100.0	33	PDB header: oxidoreductase Chain: A: PDB Molecule: succinate-semialdehyde dehydrogenase (nad(p(+))); PDBTitle: the crystal structure of oxidoreductase from marinobacter aquaeolei
18	c5x5uB_	Alignment		100.0	30	PDB header: oxidoreductase Chain: B: PDB Molecule: alpha-ketoglutaric semialdehyde dehydrogenase; PDBTitle: crystal structure of alpha-ketoglutarate-semialdehyde dehydrogenase2 (kgsadh) complexed with nad
19	c6mvtA_	Alignment		100.0	35	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase; PDBTitle: structure of a bacterial ald16 complexed with nadh
20	d1o04a_	Alignment		100.0	36	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
21	c5izdE_	Alignment	not modelled	100.0	31	PDB header: oxidoreductase Chain: E: PDB Molecule: d-glyceraldehyde dehydrogenase (nadp(+)); PDBTitle: wild-type glyceraldehyde dehydrogenase from thermoplasma acidophilum2 in complex with nadp
22	c2jg7G_	Alignment	not modelled	100.0	29	PDB header: oxidoreductase Chain: G: PDB Molecule: antiquitin; PDBTitle: crystal structure of seabream antiquitin and elucidation of2 its substrate specificity
23	c4i25B_	Alignment	not modelled	100.0	32	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-aminomuconate 6-semialdehyde dehydrogenase; PDBTitle: 2.00 angstroms x-ray crystal structure of nad- and substrate-bound 2-2 aminomuconate 6-semialdehyde dehydrogenase from pseudomonas3 fluorescens
24	c4dalB_	Alignment	not modelled	100.0	34	PDB header: oxidoreductase Chain: B: PDB Molecule: putative aldehyde dehydrogenase; PDBTitle: crystal structure of putative aldehyde dehydrogenase from2 sinorhizobium meliloti 1021
25	c4go4E_	Alignment	not modelled	100.0	36	PDB header: oxidoreductase Chain: E: PDB Molecule: putative gamma-hydroxymuconic semialdehyde dehydrogenase; PDBTitle: crystal structure of pnpe in complex with nicotinamide adenine2 dinucleotide
26	c3b4wA_	Alignment	not modelled	100.0	40	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of mycobacterium tuberculosis aldehyde dehydrogenase2 complexed with nad+
27	d1ag8a_	Alignment	not modelled	100.0	36	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like PDB header: oxidoreductase

28	c4zz7E_	Alignment	not modelled	100.0	27	Chain: E; PDB Molecule: methylmalonate-semialdehyde dehydrogenase; PDBTitle: crystal structure of methylmalonate-semialdehyde dehydrogenase (dddj)2 from oceanimonas doudoroffii
29	d1uzba_	Alignment	not modelled	100.0	32	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
30	c3ifgH_	Alignment	not modelled	100.0	34	PDB header: oxidoreductase Chain: H; PDB Molecule: succinate-semialdehyde dehydrogenase (nadp+); PDBTitle: crystal structure of succinate-semialdehyde dehydrogenase from2 burkholderia pseudomallei, part 1 of 2
31	c3qanB_	Alignment	not modelled	100.0	29	PDB header: oxidoreductase Chain: B; PDB Molecule: 1-pyrroline-5-carboxylate dehydrogenase 1; PDBTitle: crystal structure of 1-pyrroline-5-carboxylate dehydrogenase from2 bacillus halodurans
32	c3ek1C_	Alignment	not modelled	100.0	36	PDB header: oxidoreductase Chain: C; PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of aldehyde dehydrogenase from brucella2 melitensis biovar abortus 2308
33	c3i44A_	Alignment	not modelled	100.0	34	PDB header: oxidoreductase Chain: A; PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of aldehyde dehydrogenase from bartonella2 henselae at 2.0a resolution
34	c3r31A_	Alignment	not modelled	100.0	34	PDB header: oxidoreductase Chain: A; PDB Molecule: betaine aldehyde dehydrogenase; PDBTitle: crystal structure of betaine aldehyde dehydrogenase from agrobacterium2 tumefaciens
35	c3k2wD_	Alignment	not modelled	100.0	30	PDB header: oxidoreductase Chain: D; PDB Molecule: betaine-aldehyde dehydrogenase; PDBTitle: crystal structure of betaine-aldehyde dehydrogenase from2 pseudoalteromonas atlantica t6c
36	c5vbfH_	Alignment	not modelled	100.0	34	PDB header: oxidoreductase Chain: H; PDB Molecule: nad-dependent succinate-semialdehyde dehydrogenase; PDBTitle: crystal structure of succinate semialdehyde dehydrogenase from2 burkholderia vietnamiensis
37	c2w8qA_	Alignment	not modelled	100.0	34	PDB header: oxidoreductase Chain: A; PDB Molecule: succinate-semialdehyde dehydrogenase, PDBTitle: the crystal structure of human ssadh in complex with ssa.
38	c4qyjD_	Alignment	not modelled	100.0	32	PDB header: oxidoreductase Chain: D; PDB Molecule: aldehyde dehydrogenase; PDBTitle: structure of phenylacetaldehyde dehydrogenase from pseudomonas putida2 s12
39	c3jz4C_	Alignment	not modelled	100.0	35	PDB header: oxidoreductase Chain: C; PDB Molecule: succinate-semialdehyde dehydrogenase [nadp+]; PDBTitle: crystal structure of e. coli nadp dependent enzyme
40	c5j6bB_	Alignment	not modelled	100.0	30	PDB header: oxidoreductase Chain: B; PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of aldehyde dehydrogenase from burkholderia2 thailandensis in covalent complex with nadph
41	d1euha_	Alignment	not modelled	100.0	27	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
42	c4yweE_	Alignment	not modelled	100.0	36	PDB header: oxidoreductase Chain: E; PDB Molecule: putative aldehyde dehydrogenase; PDBTitle: crystal structure of a putative aldehyde dehydrogenase from2 burkholderia cenocepacia
43	c1t90B_	Alignment	not modelled	100.0	27	PDB header: oxidoreductase Chain: B; PDB Molecule: probable methylmalonate-semialdehyde dehydrogenase; PDBTitle: crystal structure of methylmalonate semialdehyde dehydrogenase from2 bacillus subtilis
44	c5mz5A_	Alignment	not modelled	100.0	28	PDB header: oxidoreductase Chain: A; PDB Molecule: aldh21); PDBTitle: crystal structure of aldehyde dehydrogenase 21 (aldh21) from2 physcomitrella patens in its apofom
45	c4jz6A_	Alignment	not modelled	100.0	32	PDB header: oxidoreductase Chain: A; PDB Molecule: salicylaldehyde dehydrogenase nahf; PDBTitle: crystal structure of a salicylaldehyde dehydrogenase from pseudomonas2 putida g7 complexed with salicylaldehyde
46	c4h73E_	Alignment	not modelled	100.0	32	PDB header: oxidoreductase Chain: E; PDB Molecule: aldehyde dehydrogenase; PDBTitle: thermostable aldehyde dehydrogenase from pyrobaculum sp. complexed2 with nadp+
47	c4knaA_	Alignment	not modelled	100.0	29	PDB header: oxidoreductase Chain: A; PDB Molecule: n-succinylglutamate 5-semialdehyde dehydrogenase; PDBTitle: crystal structure of an n-succinylglutamate 5-semialdehyde2 dehydrogenase from burkholderia thailandensis
48	c2hg2A_	Alignment	not modelled	100.0	33	PDB header: oxidoreductase Chain: A; PDB Molecule: aldehyde dehydrogenase a; PDBTitle: structure of lactaldehyde dehydrogenase
49	c4e4gF_	Alignment	not modelled	100.0	26	PDB header: oxidoreductase Chain: F; PDB Molecule: methylmalonate-semialdehyde dehydrogenase; PDBTitle: crystal structure of putative methylmalonate-semialdehyde2 dehydrogenase from sinorhizobium melloti 1021
50	c4i3wC_	Alignment	not modelled	100.0	27	PDB header: oxidoreductase Chain: C; PDB Molecule: aldehyde dehydrogenase (nad+); PDBTitle: structure of phosphonoacetaldehyde dehydrogenase in complex with2 glyceraldehyde-3-phosphate and cofactor nad+
51	d1ky8a_	Alignment	not modelled	100.0	28	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
52	c4pxnB_	Alianment	not modelled	100.0	28	PDB header: oxidoreductase Chain: B; PDB Molecule: uncharacterized protein;

						PDBTitle: structure of zm ald7 in complex with nad
53	c5kf6B_	Alignment	not modelled	100.0	26	PDB header: oxidoreductase Chain: B: PDB Molecule: bifunctional protein puta; PDBTitle: structure of proline utilization a from sinorhizobium meliloti2 complexed with l-tetrahydrofuroic acid and nad+ in space group p21
54	c3prID_	Alignment	not modelled	100.0	30	PDB header: oxidoreductase Chain: D: PDB Molecule: nadp-dependent glyceraldehyde-3-phosphate dehydrogenase; PDBTitle: crystal structure of nadp-dependent glyceraldehyde-3-phosphate2 dehydrogenase from bacillus halodurans c-125
55	c5u0mB_	Alignment	not modelled	100.0	26	PDB header: oxidoreductase Chain: B: PDB Molecule: n-succinylglutamate 5-semialdehyde dehydrogenase; PDBTitle: fatty aldehyde dehydrogenase from marinobacter aquaeolei vt8 and2 cofactor complex
56	c4idmA_	Alignment	not modelled	100.0	25	PDB header: oxidoreductase Chain: A: PDB Molecule: delta-1-pyrroline-5-carboxylate dehydrogenase; PDBTitle: crystal structure of the delta-pyrroline-5-carboxylate dehydrogenase2 from mycobacterium tuberculosis
57	c6dbbA_	Alignment	not modelled	100.0	26	PDB header: oxidoreductase Chain: A: PDB Molecule: putative aldehyde dehydrogenase family protein; PDBTitle: crystal structure of a putative aldehyde dehydrogenase family protein2 burkholderia cenocepacia j2315 in complex with partially reduced nadh
58	c4lihG_	Alignment	not modelled	100.0	37	PDB header: oxidoreductase Chain: G: PDB Molecule: gamma-glutamyl-gamma-aminobutyraldehyde dehydrogenase; PDBTitle: the crystal structure of gamma-glutamyl-gamma-aminobutyraldehyde2 dehydrogenase from burkholderia cenocepacia j2315
59	c4ohtB_	Alignment	not modelled	100.0	29	PDB header: oxidoreductase Chain: B: PDB Molecule: succinate-semialdehyde dehydrogenase; PDBTitle: crystal structure of succinic semialdehyde dehydrogenase from2 streptococcus pyogenes in complex with nadp+ as the cofactor
60	d1bi9a_	Alignment	not modelled	100.0	35	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
61	c3ju8B_	Alignment	not modelled	100.0	27	PDB header: oxidoreductase Chain: B: PDB Molecule: succinylglutamic semialdehyde dehydrogenase; PDBTitle: crystal structure of succinylglutamic semialdehyde dehydrogenase from2 pseudomonas aeruginosa.
62	c4itaA_	Alignment	not modelled	100.0	30	PDB header: oxidoreductase Chain: A: PDB Molecule: succinate-semialdehyde dehydrogenase; PDBTitle: structure of bacterial enzyme in complex with cofactor
63	c2vroB_	Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: B: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of aldehyde dehydrogenase from2 burkholderia xenovorans lb400
64	c3rosA_	Alignment	not modelled	100.0	28	PDB header: oxidoreductase Chain: A: PDB Molecule: nad-dependent aldehyde dehydrogenase; PDBTitle: crystal structure of nad-dependent aldehyde dehydrogenase from2 lactobacillus acidophilus
65	c3vz0B_	Alignment	not modelled	100.0	32	PDB header: oxidoreductase Chain: B: PDB Molecule: putative nad-dependent aldehyde dehydrogenase; PDBTitle: structural insights into cofactor and substrate selection by gox0499
66	c3hazA_	Alignment	not modelled	100.0	26	PDB header: oxidoreductase Chain: A: PDB Molecule: proline dehydrogenase; PDBTitle: crystal structure of bifunctional proline utilization a2 (puta) protein
67	c3efvC_	Alignment	not modelled	100.0	32	PDB header: oxidoreductase Chain: C: PDB Molecule: putative succinate-semialdehyde dehydrogenase; PDBTitle: crystal structure of a putative succinate-semialdehyde dehydrogenase2 from salmonella typhimurium lt2 with bound nad
68	c4h7nA_	Alignment	not modelled	100.0	26	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase; PDBTitle: the structure of putative aldehyde dehydrogenase puta from anaebacteria2 variabilis.
69	c3r64A_	Alignment	not modelled	100.0	32	PDB header: oxidoreductase Chain: A: PDB Molecule: nad dependent benzaldehyde dehydrogenase; PDBTitle: crystal structure of a nad-dependent benzaldehyde dehydrogenase from2 corynebacterium glutamicum
70	c3pqaA_	Alignment	not modelled	100.0	29	PDB header: oxidoreductase Chain: A: PDB Molecule: lactaldehyde dehydrogenase; PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase gapn2 from methanocaldococcus jannaschii dsm 2661
71	c5fhzF_	Alignment	not modelled	100.0	35	PDB header: oxidoreductase Chain: F: PDB Molecule: aldehyde dehydrogenase family 1 member a3; PDBTitle: human aldehyde dehydrogenase 1a3 complexed with nad(+) and retinoic2 acid
72	c5tjrE_	Alignment	not modelled	100.0	28	PDB header: oxidoreductase Chain: E: PDB Molecule: methylmalonate-semialdehyde dehydrogenase; PDBTitle: x-ray crystal structure of a methylmalonate semialdehyde dehydrogenase2 from pseudomonas sp. aac
73	c4qqkB_	Alignment	not modelled	100.0	25	PDB header: oxidoreductase Chain: B: PDB Molecule: fatty aldehyde dehydrogenase; PDBTitle: structure of the human sjogren larsson syndrome enzyme fatty aldehyde2 dehydrogenase (faldh)
74	d1ad3a_	Alignment	not modelled	100.0	25	Fold: ALDH-like Superfamily: ALDH-like

						Family: ALDH-like
75	c4oe4A	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: delta-1-pyrroline-5-carboxylate dehydrogenase, PDBTitle: crystal structure of yeast ald4a1 complexed with nad+
76	c4dngB	Alignment	not modelled	100.0	29	PDB header: oxidoreductase Chain: B: PDB Molecule: uncharacterized aldehyde dehydrogenase aldy; PDBTitle: crystal structure of putative aldehyde dehydrogenase from bacillus2 subtilis subsp. subtilis str. 168
77	c5nnoA	Alignment	not modelled	100.0	26	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase; PDBTitle: structure of tbaldh3 complexed with nad and an3057 aldehyde
78	c5ux5C	Alignment	not modelled	100.0	22	PDB header: oxidoreductase/transferase Chain: C: PDB Molecule: bifunctional protein proline utilization a (puta); PDBTitle: structure of proline utilization a (puta) from corynebacterium2 freiburgense
79	c5iuuA	Alignment	not modelled	100.0	37	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase family protein; PDBTitle: crystal structure of indole-3-acetaldehyde dehydrogenase in apo form
80	c6d97B	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: aldehyde dehydrogenase 12; PDBTitle: structure of aldehyde dehydrogenase 12 (aldh12) from zea mays
81	c3v4cB	Alignment	not modelled	100.0	25	PDB header: oxidoreductase Chain: B: PDB Molecule: aldehyde dehydrogenase (nadp+); PDBTitle: crystal structure of a semialdehyde dehydrogenase from sinorhizobium2 meliloti 1021
82	d1ez0a	Alignment	not modelled	100.0	19	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
83	c3v9iD	Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: D: PDB Molecule: delta-1-pyrroline-5-carboxylate dehydrogenase, PDBTitle: crystal structure of human 1-pyrroline-5-carboxylate dehydrogenase2 mutant s352l
84	c5ujuA	Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: nad-dependent aldehyde dehydrogenase; PDBTitle: crystal structure of nad-dependent aldehyde dehydrogenase from2 burkholderia multivorans
85	c3lnsD	Alignment	not modelled	100.0	25	PDB header: oxidoreductase Chain: D: PDB Molecule: benzaldehyde dehydrogenase; PDBTitle: benzaldehyde dehydrogenase, a class 3 aldehyde dehydrogenase, with2 bound nadp+ and benzoate adduct
86	c5j78B	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: acetaldehyde dehydrogenase (acetylating); PDBTitle: crystal structure of an acetylating aldehyde dehydrogenase from2 geobacillus thermoglucosidasius
87	c4c3sA	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase; PDBTitle: structure of a propionaldehyde dehydrogenase from the clostridium2 phytofermentans fucose utilisation bacterial microcompartment
88	c3k9dD	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: D: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of probable aldehyde dehydrogenase from listeria2 monocytogenes egd-e
89	d1o20a	Alignment	not modelled	100.0	17	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
90	c4jbeA	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: gamma-glutamyl phosphate reductase; PDBTitle: 1.95 angstrom crystal structure of gamma-glutamyl phosphate reductase2 from saccharomonospora viridis.
91	c5jfnA	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of rhodopseudomonas palustris propionaldehyde2 dehydrogenase with bound coa and acylated cys330
92	c3my7A	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: alcohol dehydrogenase/acetalddehyde dehydrogenase; PDBTitle: the crystal structure of the acdh domain of an alcohol dehydrogenase2 from vibrio parahaemolyticus to 2.25a
93	c4ghkB	Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: B: PDB Molecule: gamma-glutamyl phosphate reductase; PDBTitle: x-ray crystal structure of gamma-glutamyl phosphate reductase from2 burkholderia thailandensis
94	c2h5gA	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: delta-1-pyrroline-5-carboxylate synthetase; PDBTitle: crystal structure of human pyrroline-5-carboxylate synthetase
95	d1vlua	Alignment	not modelled	100.0	17	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
96	c1vlub	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: gamma-glutamyl phosphate reductase; PDBTitle: crystal structure of gamma-glutamyl phosphate reductase (yor323c) from2 saccharomyces cerevisiae at 2.40 a resolution
97	d1k75a	Alignment	not modelled	98.4	15	Fold: ALDH-like Superfamily: ALDH-like Family: L-histidinol dehydrogenase HisD
98	c6an0A	Alignment	not modelled	98.0	13	PDB header: oxidoreductase Chain: A: PDB Molecule: histidinol dehydrogenase;

98	c0anvA_	Alignment	not modelled	98.0	19	PDBTitle: crystal structure of histidinol dehydrogenase from elizabethkingia2 anophelis PDB header: oxidoreductase
99	c4gicB_	Alignment	not modelled	97.7	20	Chain: B; PDB Molecule: histidinol dehydrogenase; PDBTitle: crystal structure of a putative histidinol dehydrogenase (target psi-2 014034) from methylococcus capsulatus
100	c5vldC_	Alignment	not modelled	97.7	15	PDB header: oxidoreductase Chain: C; PDB Molecule: histidinol dehydrogenase, chloroplastic; PDBTitle: crystal structure of medicago truncatula l-histidinol dehydrogenase in2 complex with l-histidine and nad+
101	c4g07A_	Alignment	not modelled	97.5	18	PDB header: oxidoreductase Chain: A; PDB Molecule: histidinol dehydrogenase; PDBTitle: the crystal structure of the c366s mutant of hdh from brucella suis
102	c3v42A_	Alignment	not modelled	63.9	24	PDB header: protein binding Chain: A; PDB Molecule: folliculin; PDBTitle: crystal structure of renal tumor suppressor protein, folliculin
103	c2yvqA_	Alignment	not modelled	44.3	11	PDB header: ligase Chain: A; PDB Molecule: carbamoyl-phosphate synthase; PDBTitle: crystal structure of mgs domain of carbamoyl-phosphate2 synthetase from homo sapiens
104	c2l69A_	Alignment	not modelled	31.7	17	PDB header: de novo protein Chain: A; PDB Molecule: rossmann 2x3 fold protein; PDBTitle: solution nmr structure of de novo designed protein, p-loop ntpase2 fold, northeast structural genomics consortium target or28
105	d1s7ja_	Alignment	not modelled	31.2	21	Fold: Ferredoxin-like Superfamily: Dimeric alpha+beta barrel Family: DGPF domain (Pfam 04946)
106	d1a9xa2	Alignment	not modelled	27.5	17	Fold: Methylglyoxal synthase-like Superfamily: Methylglyoxal synthase-like Family: Carbamoyl phosphate synthetase, large subunit allosteric, C-terminal domain
107	d1yuaa2	Alignment	not modelled	26.4	44	Fold: Rubredoxin-like Superfamily: Zinc beta-ribbon Family: Prokaryotic DNA topoisomerase I, a C-terminal fragment
108	c2iswB_	Alignment	not modelled	26.1	14	PDB header: lyase Chain: B; PDB Molecule: putative fructose-1,6-bisphosphate aldolase; PDBTitle: structure of giardia fructose-1,6-biphosphate aldolase in2 complex with phosphoglycolohydroxamate
109	c5g2rA_	Alignment	not modelled	23.9	21	PDB header: transferase Chain: A; PDB Molecule: molybdopterin biosynthesis protein cnx1; PDBTitle: crystal structure of the mo-insertase domain cnx1e from2 arabidopsis thaliana
110	c6hxxB_	Alignment	not modelled	21.9	13	PDB header: lyase Chain: B; PDB Molecule: citryl-coa synthetase large subunit; PDBTitle: structure of citryl-coa synthetase from hydrogenobacter thermophilus
111	d2ioja1	Alignment	not modelled	21.6	17	Fold: MurF and HprK N-domain-like Superfamily: HprK N-terminal domain-like Family: DRTGG domain