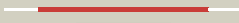
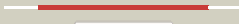
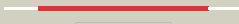
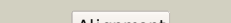
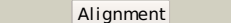
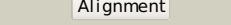
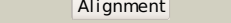
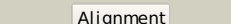
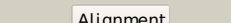
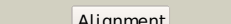
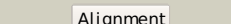
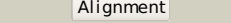
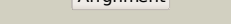
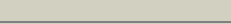
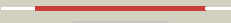
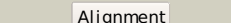
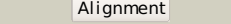
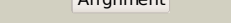
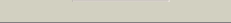


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2hg2A_	 Alignment		100.0	100	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase a; PDBTitle: structure of lactaldehyde dehydrogenase
2	c3ed6B_	 Alignment		100.0	36	PDB header: oxidoreductase Chain: B: PDB Molecule: betaine aldehyde dehydrogenase; PDBTitle: 1.7 angstrom resolution crystal structure of betaine aldehyde2 dehydrogenase (betb) from staphylococcus aureus
3	c2o2qA_	 Alignment		100.0	33	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
4	d1a4sa_	 Alignment		100.0	35	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
5	c3ifgH_	 Alignment		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
6	d1bxsA_	 Alignment		100.0	33	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
7	d1o9ja_	 Alignment		100.0	33	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
8	c3rh9A_	 Alignment		100.0	35	PDB header: oxidoreductase Chain: A: PDB Molecule: succinate-semialdehyde dehydrogenase (nad(p)(+)); PDBTitle: the crystal structure of oxidoreductase from marinobacter aquaeolei
9	c2d4eB_	 Alignment		100.0	32	PDB header: oxidoreductase Chain: B: PDB Molecule: 5-carboxymethyl-2-hydroxymuconate semialdehyde PDBTitle: crystal structure of the hpcc from thermus thermophilus hb8
10	c2jg7G_	 Alignment		100.0	28	PDB header: oxidoreductase Chain: G: PDB Molecule: antiquitin; PDBTitle: crystal structure of seabream antiquitin and elucidation of2 its substrate specificity
11	c3jz4C_	 Alignment		100.0	39	PDB header: oxidoreductase Chain: C: PDB Molecule: succinate-semialdehyde dehydrogenase [nadp+]; PDBTitle: crystal structure of e. coli nadp dependent enzyme

12	c3ek1C_	Alignment		100.0	36	PDB header: oxidoreductase Chain: C: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of aldehyde dehydrogenase from brucella2 melitensis biovar abortus 2308
13	c3k2wD_	Alignment		100.0	43	PDB header: oxidoreductase Chain: D: PDB Molecule: betaine-aldehyde dehydrogenase; PDBTitle: crystal structure of betaine-aldehyde dehydrogenase from2 pseudoalteromonas atlantica t6c
14	c2w8qA_	Alignment		100.0	36	PDB header: oxidoreductase Chain: A: PDB Molecule: succinate-semialdehyde dehydrogenase, PDBTitle: the crystal structure of human ssadh in complex with ssa.
15	c3iwkB_	Alignment		100.0	35	PDB header: oxidoreductase Chain: B: PDB Molecule: aminoaldehyde dehydrogenase; PDBTitle: crystal structure of aminoaldehyde dehydrogenase 1 from2 pisum sativum (psamadh1)
16	d1wnda_	Alignment		100.0	38	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
17	c2ve5H_	Alignment		100.0	35	PDB header: oxidoreductase Chain: H: PDB Molecule: betaine aldehyde dehydrogenase; PDBTitle: crystallographic structure of betaine aldehyde2 dehydrogenase from pseudomonas aeruginosa
18	c3qanB_	Alignment		100.0	32	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
19	d1o04a_	Alignment		100.0	32	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
20	c3r31A_	Alignment		100.0	34	PDB header: oxidoreductase Chain: A: PDB Molecule: betaine aldehyde dehydrogenase; PDBTitle: crystal structure of betaine aldehyde dehydrogenase from agrobacterium2 tumefaciens
21	d1ag8a_	Alignment	not modelled	100.0	32	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
22	d1uzba_	Alignment	not modelled	100.0	31	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
23	c1t90B_	Alignment	not modelled	100.0	30	PDB header: oxidoreductase Chain: B: PDB Molecule: probable methyl malonate-semialdehyde PDBTitle: crystal structure of methylmalonate semialdehyde2 dehydrogenase from bacillus subtilis
24	c3i44A_	Alignment	not modelled	100.0	33	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of aldehyde dehydrogenase from bartonella2 henselae at 2.0a resolution
25	c3b4wA_	Alignment	not modelled	100.0	34	PDB header: oxidoreductase Chain: A: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of mycobacterium tuberculosis aldehyde dehydrogenase2 complexed with nad+
26	d1euha_	Alignment	not modelled	100.0	33	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
27	c3prlD_	Alignment	not modelled	100.0	35	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
28	d1ky8a_	Alignment	not modelled	100.0	27	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like

29	c3ju8B_	 Alignment	not modelled	100.0	28	PDB header: oxidoreductase Chain: B: PDB Molecule: succinylglutamic semialdehyde dehydrogenase; PDBTitle: crystal structure of succinylglutamic semialdehyde dehydrogenase from <i>Pseudomonas aeruginosa</i> .
30	d1bi9a_	 Alignment	not modelled	100.0	32	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
31	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 from <i>Lactobacillus acidophilus</i>
32	c3hazA_	 Alignment	not modelled	100.0	29	PDB header: oxidoreductase Chain: A: PDB Molecule: proline dehydrogenase; PDBTitle: crystal structure of bifunctional proline utilization a2 (puta) protein
33	c3efvC_	 Alignment	not modelled	100.0	34	PDB header: oxidoreductase Chain: C: PDB Molecule: putative succinate-semialdehyde dehydrogenase; PDBTitle: crystal structure of a putative succinate-semialdehyde dehydrogenase2 from <i>Salmonella typhimurium</i> lt2 with bound nad
34	c3r64A_	 Alignment	not modelled	100.0	31	PDB header: oxidoreductase Chain: A: PDB Molecule: nad dependent benzaldehyde dehydrogenase; PDBTitle: crystal structure of a nad-dependent benzaldehyde dehydrogenase from <i>Corynebacterium glutamicum</i>
35	c2vroB_	 Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: B: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of aldehyde dehydrogenase from <i>Burkholderia xenovorans</i> lb400
36	c3pqaA_	 Alignment	not modelled	100.0	35	PDB header: oxidoreductase Chain: A: PDB Molecule: lactaldehyde dehydrogenase; PDBTitle: crystal structure of glyceraldehyde-3-phosphate dehydrogenase gapn2 from <i>Methanocaldococcus jannaschii</i> dsm 2661
37	d1ad3a_	 Alignment	not modelled	100.0	26	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
38	c3v4cB_	 Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: B: PDB Molecule: aldehyde dehydrogenase (nadp+); PDBTitle: crystal structure of a semialdehyde dehydrogenase from <i>Sinorhizobium meliloti</i> 1021
39	d1ez0a_	 Alignment	not modelled	100.0	22	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
40	c3lnsD_	 Alignment	not modelled	100.0	25	PDB header: oxidoreductase Chain: D: PDB Molecule: benzaldehyde dehydrogenase; PDBTitle: benzaldehyde dehydrogenase, a class 3 aldehyde dehydrogenase, with 2 bound nadp+ and benzoate adduct
41	c3k9dD_	 Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: D: PDB Molecule: aldehyde dehydrogenase; PDBTitle: crystal structure of probable aldehyde dehydrogenase from <i>Listeria monocytogenes</i> egd-e
42	d1o20a_	 Alignment	not modelled	100.0	19	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
43	c3my7A_	 Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: alcohol dehydrogenase/acetaldehyde dehydrogenase; PDBTitle: the crystal structure of the acdh domain of an alcohol dehydrogenase2 from <i>Vibrio parahaemolyticus</i> to 2.25a
44	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
45	d1vlua_	 Alignment	not modelled	100.0	22	Fold: ALDH-like Superfamily: ALDH-like Family: ALDH-like
46	c1vlub_	 Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: B: PDB Molecule: gamma-glutamyl phosphate reductase; PDBTitle: crystal structure of gamma-glutamyl phosphate reductase (yor323c) from <i>Saccharomyces cerevisiae</i> at 2.40 a resolution
47	d1k75a_	 Alignment	not modelled	98.5	17	Fold: ALDH-like Superfamily: ALDH-like Family: L-histidinol dehydrogenase HisD
48	c3fa4D_	 Alignment	not modelled	62.5	16	PDB header: lyase Chain: D: PDB Molecule: 2,3-dimethylmalate lyase; PDBTitle: crystal structure of 2,3-dimethylmalate lyase, a pep mutase/isocitrate2 lyase superfamily member, triclinic crystal form
49	c2yvqA_	 Alignment	not modelled	54.1	12	PDB header: ligase Chain: A: PDB Molecule: carbamoyl-phosphate synthase; PDBTitle: crystal structure of ngs domain of carbamoyl-phosphate2 synthetase from <i>Homo sapiens</i>
50	c3e5bB_	 Alignment	not modelled	50.9	14	PDB header: lyase Chain: B: PDB Molecule: isocitrate lyase; PDBTitle: 2.4 a crystal structure of isocitrate lyase from <i>Brucella melitensis</i>
51	d1a9xa2	 Alignment	not modelled	47.6	17	Fold: Methylglyoxal synthase-like Superfamily: Methylglyoxal synthase-like Family: Carbamoyl phosphate synthetase, large subunit allosteric, C-terminal domain
52	d1y5ea1	 Alignment	not modelled	46.6	15	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like
53	d1s7ia_	 Alignment	not modelled	42.6	17	Fold: Ferredoxin-like Superfamily: Dimeric alpha+beta barrel Family: DGPF domain (Pfam 04946)

54	d1wo8a1	Alignment	not modelled	42.3	13	Fold: Methylglyoxal synthase-like Superfamily: Methylglyoxal synthase-like Family: Methylglyoxal synthase, MgsA
55	c2yvka	Alignment	not modelled	42.2	19	PDB header: isomerase Chain: A: PDB Molecule: methylthioribose-1-phosphate isomerase; PDBTitle: crystal structure of 5-methylthioribose 1-phosphate2 isomerase product complex from bacillus subtilis
56	d2bona1	Alignment	not modelled	41.3	15	Fold: NAD kinase/diacylglycerol kinase-like Superfamily: NAD kinase/diacylglycerol kinase-like Family: Diacylglycerol kinase-like
57	d2fts3	Alignment	not modelled	38.4	21	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MoeA central domain-like
58	d1uz5a3	Alignment	not modelled	36.9	16	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MoeA central domain-like
59	c1uz5A	Alignment	not modelled	34.6	16	PDB header: molybdopterin biosynthesis Chain: A: PDB Molecule: 402aa long hypothetical molybdopterin PDBTitle: the crystal structure of molybdopterin biosynthesis moea2 protein from pyrococcus horikosii
60	c2ixaA	Alignment	not modelled	33.3	15	PDB header: hydrolase Chain: A: PDB Molecule: alpha-n-acetylgalactosaminidase; PDBTitle: a-zyne, n-acetylgalactosaminidase
61	c2l69A	Alignment	not modelled	28.6	21	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
62	d2g2ca1	Alignment	not modelled	26.8	10	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like
63	d1k99a	Alignment	not modelled	23.5	11	Fold: HMG-box Superfamily: HMG-box Family: HMG-box
64	c2ec4A	Alignment	not modelled	23.3	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: fas-associated factor 1; PDBTitle: solution structure of the uas domain from human fas-2 associated factor 1
65	d1xxaa	Alignment	not modelled	22.7	21	Fold: DcoH-like Superfamily: C-terminal domain of arginine repressor Family: C-terminal domain of arginine repressor
66	c3fghA	Alignment	not modelled	22.7	11	PDB header: transcription Chain: A: PDB Molecule: transcription factor a, mitochondrial; PDBTitle: human mitochondrial transcription factor a box b
67	c2crjA	Alignment	not modelled	21.8	18	PDB header: gene regulation Chain: A: PDB Molecule: swi/snf-related matrix-associated actin- PDBTitle: solution structure of the hmg domain of mouse hmg domain2 protein hmgx2
68	c2is8A	Alignment	not modelled	21.3	10	PDB header: structural protein Chain: A: PDB Molecule: molybdopterin biosynthesis enzyme, moab; PDBTitle: crystal structure of the molybdopterin biosynthesis enzyme moab2 (ttha0341) from thermus thermophilus hb8
69	d1u0ta	Alignment	not modelled	21.3	15	Fold: NAD kinase/diacylglycerol kinase-like Superfamily: NAD kinase/diacylglycerol kinase-like Family: NAD kinase-like
70	c3jtpB	Alignment	not modelled	19.6	27	PDB header: protein binding Chain: B: PDB Molecule: adapter protein meca 1; PDBTitle: crystal structure of the c-terminal domain of meca
71	d1wu2a3	Alignment	not modelled	19.5	13	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MoeA central domain-like
72	c2eqzA	Alignment	not modelled	19.3	11	PDB header: transcription Chain: A: PDB Molecule: high mobility group protein b3; PDBTitle: solution structure of the first hmg-box domain from high2 mobility group protein b3
73	d1j3xa	Alignment	not modelled	18.8	11	Fold: HMG-box Superfamily: HMG-box Family: HMG-box
74	c1j3xA	Alignment	not modelled	18.8	11	PDB header: dna binding protein Chain: A: PDB Molecule: high mobility group protein 2; PDBTitle: solution structure of the n-terminal domain of the hmgb2
75	c3b8iF	Alignment	not modelled	17.3	18	PDB header: lyase Chain: F: PDB Molecule: pa4872 oxaloacetate decarboxylase; PDBTitle: crystal structure of oxaloacetate decarboxylase from pseudomonas2 aeruginosa (pa4872) in complex with oxalate and mg2+
76	c3v4gA	Alignment	not modelled	17.2	21	PDB header: dna binding protein Chain: A: PDB Molecule: arginine repressor; PDBTitle: 1.60 angstrom resolution crystal structure of an arginine repressor2 from vibrio vulnificus cmcp6
77	c3rfuC	Alignment	not modelled	16.9	12	PDB header: hydrolase, membrane protein Chain: C: PDB Molecule: copper efflux atpase; PDBTitle: crystal structure of a copper-transporting pib-type atpase
78	c2nqgA	Alignment	not modelled	16.1	14	PDB header: biosynthetic protein Chain: A: PDB Molecule: molybdopterin biosynthesis protein moea; PDBTitle: moea r137q
79	d2ioja1	Alignment	not modelled	16.1	17	Fold: MurF and HprK N-domain-like Superfamily: HprK N-terminal domain-like Family: DRTGG domain
						PDB header: oxidoreductase

80	c3f4fF_	Alignment	not modelled	16.1	16	Chain: F: PDB Molecule: putative oxidoreductase yhhx; PDBTitle: crystal structure of a probable oxidoreductase yhhx in2 triclinic form. northeast structural genomics target er647
81	c2pjkA_	Alignment	not modelled	15.9	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: 178aa long hypothetical molybdenum cofactor PDBTitle: structure of hypothetical molybdenum cofactor biosynthesis2 protein b from sulfolobus tokodaii
82	d1mkza_	Alignment	not modelled	15.7	15	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like
83	d2lefa_	Alignment	not modelled	15.3	14	Fold: HMG-box Superfamily: HMG-box Family: HMG-box
84	d1hsma_	Alignment	not modelled	14.8	18	Fold: HMG-box Superfamily: HMG-box Family: HMG-box
85	c2cs1A_	Alignment	not modelled	14.7	18	PDB header: dna binding protein Chain: A: PDB Molecule: pms1 protein homolog 1; PDBTitle: solution structure of the hmg domain of human dna mismatch2 repair protein
86	c2co9A_	Alignment	not modelled	14.6	15	PDB header: transcription Chain: A: PDB Molecule: thymus high mobility group box protein tox; PDBTitle: solution structure of the hmg_box domain of thymus high2 mobility group box protein tox from mouse
87	c3dtyA_	Alignment	not modelled	14.5	16	PDB header: oxidoreductase Chain: A: PDB Molecule: oxidoreductase, gfo/ldh/moca family; PDBTitle: crystal structure of an oxidoreductase from pseudomonas2 syringae
88	d1j46a_	Alignment	not modelled	14.2	8	Fold: HMG-box Superfamily: HMG-box Family: HMG-box
89	c2bonB_	Alignment	not modelled	13.9	9	PDB header: transferase Chain: B: PDB Molecule: lipid kinase; PDBTitle: structure of an escherichia coli lipid kinase (yegs)
90	c3ereD_	Alignment	not modelled	13.6	19	PDB header: dna binding protein/dna Chain: D: PDB Molecule: arginine repressor; PDBTitle: crystal structure of the arginine repressor protein from mycobacterium2 tuberculosis in complex with the dna operator
91	c2qiwa_	Alignment	not modelled	13.6	15	PDB header: transferase Chain: A: PDB Molecule: pep phosphonmutase; PDBTitle: crystal structure of a putative phosphoenolpyruvate phosphonmutase2 (ncgl1015, cgl1060) from corynebacterium glutamicum atcc 13032 at3 1.80 a resolution
92	d1lwma_	Alignment	not modelled	13.0	21	Fold: HMG-box Superfamily: HMG-box Family: HMG-box
93	d1v64a_	Alignment	not modelled	12.8	13	Fold: HMG-box Superfamily: HMG-box Family: HMG-box
94	c1jr2A_	Alignment	not modelled	12.2	13	PDB header: lyase Chain: A: PDB Molecule: uroporphyrinogen-iii synthase; PDBTitle: structure of uroporphyrinogen iii synthase
95	d1jr2a_	Alignment	not modelled	12.2	13	Fold: HemD-like Superfamily: HemD-like Family: HemD-like
96	c3peiA_	Alignment	not modelled	12.0	14	PDB header: hydrolase Chain: A: PDB Molecule: cytosol aminopeptidase; PDBTitle: crystal structure of cytosol aminopeptidase from francisella2 tularensis
97	d1v63a_	Alignment	not modelled	11.9	5	Fold: HMG-box Superfamily: HMG-box Family: HMG-box
98	c3gfgB_	Alignment	not modelled	11.9	12	PDB header: oxidoreductase Chain: B: PDB Molecule: uncharacterized oxidoreductase yvaa; PDBTitle: structure of putative oxidoreductase yvaa from bacillus subtilis in2 triclinic form
99	c1h6dL_	Alignment	not modelled	11.8	18	PDB header: protein translocation Chain: L: PDB Molecule: precursor form of glucose-fructose oxidoreductase2 from zymomonas mobilis complexed with glycerol