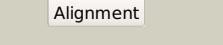
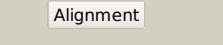
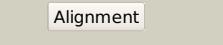
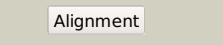
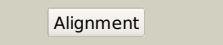


Phyre²

| | |
|---------------|-------------------------------|
| Email | mdejesus@rockefeller.edu |
| Description | RVBD2454c_(-)_2753635_2754756 |
| Date | Wed Aug 7 12:50:08 BST 2019 |
| Unique Job ID | 59e7af153048332e |

Detailed template information

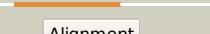
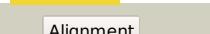
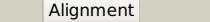
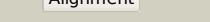
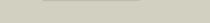
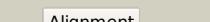
| # | Template | Alignment Coverage | 3D Model | Confidence | % i.d. | Template Information |
|----|----------|---|---|------------|--------|--|
| 1 | c5b46B_ |  |  | 100.0 | 36 | PDB header: oxidoreductase Chain: B: PDB Molecule: 2-oxoacid--ferredoxin oxidoreductase beta subunit; PDBTitle: 2-oxoacid:ferredoxin oxidoreductase 2 from sulfolobus tokodai - ligand2 free form |
| 2 | c6n2oB_ |  |  | 100.0 | 40 | PDB header: oxidoreductase Chain: B: PDB Molecule: pyruvate ferredoxin/flavodoxin oxidoreductase, beta PDBTitle: 2-oxoglutarate:ferredoxin oxidoreductase from magnetococcus marinus2 with 2-oxoglutarate, coenzyme a and succinyl-coa bound |
| 3 | c5c4iC_ |  |  | 100.0 | 23 | PDB header: oxidoreductase Chain: C: PDB Molecule: oxalate oxidoreductase subunit beta; PDBTitle: structure of an oxalate oxidoreductase |
| 4 | d2c42a2 |  |  | 100.0 | 21 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: PFOR PP module |
| 5 | c6cipD_ |  |  | 100.0 | 23 | PDB header: oxidoreductase Chain: D: PDB Molecule: pyruvate-ferredoxin oxidoreductase; PDBTitle: pyruvate:ferredoxin oxidoreductase from moorella thermoacetica with2 acetyl-tpp bound |
| 6 | c2c3yA_ |  |  | 100.0 | 24 | PDB header: oxidoreductase Chain: A: PDB Molecule: pyruvate-ferredoxin oxidoreductase; PDBTitle: crystal structure of the radical form of2 pyruvate:ferredoxin oxidoreductase from desulfovibrio3 africanus |
| 7 | c3ey9B_ |  |  | 100.0 | 17 | PDB header: oxidoreductase Chain: B: PDB Molecule: pyruvate dehydrogenase [cytochrome]; PDBTitle: structural basis for membrane binding and catalytic activation of the2 peripheral membrane enzyme pyruvate oxidase from escherichia coli |
| 8 | c2djiA_ |  |  | 100.0 | 16 | PDB header: oxidoreductase Chain: A: PDB Molecule: pyruvate oxidase; PDBTitle: crystal structure of pyruvate oxidase from aerococcus2 viridans containing fad |
| 9 | c1yi1A_ |  |  | 100.0 | 16 | PDB header: transferase Chain: A: PDB Molecule: acetolactate synthase; PDBTitle: crystal structure of arabidopsis thaliana acetohydroxyacid synthase in2 complex with a sulfonylurea herbicide, tribenuron methyl |
| 10 | c1t9dB_ |  |  | 100.0 | 17 | PDB header: transferase Chain: B: PDB Molecule: acetolactate synthase, mitochondrial; PDBTitle: crystal structure of yeast acetohydroxyacid synthase in complex with a2 sulfonylurea herbicide, metsulfuron methyl |
| 11 | c4rjB_ |  |  | 100.0 | 18 | PDB header: lyase Chain: B: PDB Molecule: acetolactate synthase; PDBTitle: acetolactate synthase from bacillus subtilis bound to thdp - crystal form ii |

| | | | | | | |
|----|-------------------------|--|--------------|-------|---|---|
| 12 | c3eyaE | | 100.0 | 18 | PDB header: oxidoreductase Chain: E: PDB Molecule: pyruvate dehydrogenase [cytochrome]; PDBTitle: structural basis for membrane binding and catalytic2 activation of the peripheral membrane enzyme pyruvate3 oxidase from escherichia coli | |
| 13 | c1ozhD | | 100.0 | 19 | PDB header: lyase Chain: D: PDB Molecule: acetolactate synthase, catabolic; PDBTitle: the crystal structure of klebsiella pneumoniae acetolactate2 synthase with enzyme-bound cofactor and with an unusual3 intermediate. | |
| 14 | c2pgnA | | 100.0 | 20 | PDB header: hydrolase Chain: A: PDB Molecule: cyclohexane-1,2-dione hydrolase (cdh); PDBTitle: the crystal structure of fad and thdp-dependent cyclohexane-1,2-dione2 hydrolase in complex with cyclohexane-1,2-dione | |
| 15 | c1powA | | 100.0 | 13 | PDB header: oxidoreductase(oxygen as acceptor) Chain: A: PDB Molecule: pyruvate oxidase; PDBTitle: the refined structures of a stabilized mutant and of wild-type2 pyruvate oxidase from lactobacillus plantarum | |
| 16 | c1jscA | | 100.0 | 19 | PDB header: lyase Chain: A: PDB Molecule: acetohydroxy-acid synthase; PDBTitle: crystal structure of the catalytic subunit of yeast2 acetohydroxyacid synthase: a target for herbicidal3 inhibitors | |
| 17 | d2ihta3 | | 100.0 | 20 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module | |
| 18 | c5ahkB | | 100.0 | 13 | PDB header: transferase Chain: B: PDB Molecule: acetolactate synthase ii, large subunit; PDBTitle: crystal structure of acetohydroxy acid synthase pf5 from2 pseudomonas protegens | |
| 19 | c2v3wC | | 100.0 | 19 | PDB header: lyase Chain: C: PDB Molecule: benzoylformate decarboxylase; PDBTitle: crystal structure of the benzoylformate decarboxylase variant l461a2 from pseudomonas putida | |
| 20 | c2panF | | 100.0 | 15 | PDB header: lyase Chain: F: PDB Molecule: glyoxylate carboligase; PDBTitle: crystal structure of e. coli glyoxylate carboligase | |
| 21 | c2x7jA | | not modelled | 100.0 | 15 | PDB header: transferase Chain: A: PDB Molecule: 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene PDBTitle: structure of the menaquinone biosynthesis protein mend from2 bacillus subtilis |
| 22 | c1upaC | | not modelled | 100.0 | 18 | PDB header: synthase Chain: C: PDB Molecule: carboxyethylarginine synthase; PDBTitle: carboxyethylarginine synthase from streptomyces2 clavuligerus (semet structure) |
| 23 | c4q9dA | | not modelled | 100.0 | 19 | PDB header: lyase Chain: A: PDB Molecule: benzoylformate decarboxylase; PDBTitle: x-ray structure of a putative thiamin diphosphate-dependent enzyme2 isolated from mycobacterium smegmatis |
| 24 | d1ybha3 | | not modelled | 100.0 | 19 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 25 | c2ag1A | | not modelled | 100.0 | 14 | PDB header: lyase Chain: A: PDB Molecule: benzaldehyde lyase; PDBTitle: crystal structure of benzaldehyde lyase (bal)- semet |
| 26 | d2djia3 | | not modelled | 100.0 | 15 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 27 | c1ovmC | | not modelled | 100.0 | 20 | PDB header: lyase Chain: C: PDB Molecule: indole-3-pyruvate decarboxylase; PDBTitle: crystal structure of indolepyruvate decarboxylase from2 enterobacter cloacae |
| 28 | c2q27B | | not modelled | 100.0 | 19 | PDB header: lyase Chain: B: PDB Molecule: oxalyl-coa decarboxylase; PDBTitle: crystal structure of oxalyl-coa decarboxylase from escherichia coli |
| | | | | | PDB header: lyase Chain: B: PDB Molecule: oxalyl-coa decarboxylase; | |

| | | | | | | |
|----|-------------------------|-----------|--------------|-------|----|--|
| 29 | c4k9qB | Alignment | not modelled | 100.0 | 15 | Chain: B: PDB Molecule: benzoylformate decarboxylase; PDBTitle: the crystal structure of benzoylformate decarboxylase from 2 polyuncleobacter necessarius |
| 30 | c2ji6B | Alignment | not modelled | 100.0 | 16 | PDB header: lyase Chain: B: PDB Molecule: oxalyl-coa decarboxylase; PDBTitle: x-ray structure of oxalyl-coa decarboxylase in complex with 3-deaza-2 thdp and oxalyl-coa |
| 31 | d1t9ba3 | Alignment | not modelled | 100.0 | 19 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 32 | d2ez9a3 | Alignment | not modelled | 100.0 | 16 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 33 | c2nxwB | Alignment | not modelled | 100.0 | 19 | PDB header: lyase Chain: B: PDB Molecule: phenyl-3-pyruvate decarboxylase; PDBTitle: crystal structure of phenylpyruvate decarboxylase of azospirillum2 brasiliense |
| 34 | d1ozha3 | Alignment | not modelled | 100.0 | 21 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 35 | c1zpdA | Alignment | not modelled | 100.0 | 16 | PDB header: alcohol fermentation Chain: A: PDB Molecule: pyruvate decarboxylase; PDBTitle: pyruvate decarboxylase from zymomonas mobilis |
| 36 | d1jsca3 | Alignment | not modelled | 100.0 | 22 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 37 | d1ovma3 | Alignment | not modelled | 100.0 | 20 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 38 | c2vbgB | Alignment | not modelled | 99.9 | 18 | PDB header: lyase Chain: B: PDB Molecule: branched-chain alpha-ketoacid decarboxylase; PDBTitle: the complex structure of the branched-chain keto acid2 decarboxylase (kdca) from lactococcus lactis with 2r-1-3 hydroxyethyl-deazathdp |
| 39 | c2jlaD | Alignment | not modelled | 99.9 | 14 | PDB header: transferase Chain: D: PDB Molecule: 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene PDBTitle: crystal structure of e.coli mend, 2-succinyl-5-enolpyruvyl-2 6-hydroxy-3-cyclohexadiene-1-carboxylate synthase - semet3 protein |
| 40 | c3lq1A | Alignment | not modelled | 99.9 | 17 | PDB header: transferase Chain: A: PDB Molecule: 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1- PDBTitle: crystal structure of 2-succinyl-6-hydroxy-2,4-cyclohexadiene 1-2 carboxylic acid synthase/2-oxoglutarate decarboxylase from listeria3 monocytogenes str. 4b f2365 |
| 41 | d2ji7a3 | Alignment | not modelled | 99.9 | 17 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 42 | d1pvda3 | Alignment | not modelled | 99.9 | 18 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 43 | d1zpdA3 | Alignment | not modelled | 99.9 | 20 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 44 | c2w93A | Alignment | not modelled | 99.9 | 14 | PDB header: lyase Chain: A: PDB Molecule: pyruvate decarboxylase isozyme 1; PDBTitle: crystal structure of the saccharomyces cerevisiae pyruvate2 decarboxylase variant e477q in complex with the surrogate pyruvamide |
| 45 | c2vbiF | Alignment | not modelled | 99.9 | 21 | PDB header: lyase Chain: F: PDB Molecule: pyruvate decarboxylase; PDBTitle: holostucture of pyruvate decarboxylase from acetobacter pasteurianus |
| 46 | d1q6za3 | Alignment | not modelled | 99.9 | 20 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase PP module |
| 47 | c5essB | Alignment | not modelled | 99.7 | 14 | PDB header: transferase Chain: B: PDB Molecule: 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1- PDBTitle: crystal structure of m. tuberculosis mend bound to mg2+ and covalent2 intermediate i (a thdp and decarboxylated 2-oxoglutarate adduct) |
| 48 | d2bfda1 | Alignment | not modelled | 99.3 | 18 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase PP module |
| 49 | d1w85a | Alignment | not modelled | 99.3 | 23 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase PP module |
| 50 | d2r8oa2 | Alignment | not modelled | 99.3 | 15 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like PP module |
| 51 | d2ozla1 | Alignment | not modelled | 99.2 | 26 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase PP module |
| 52 | d1umda | Alignment | not modelled | 99.2 | 22 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase PP module |
| 53 | c2o1xA | Alignment | not modelled | 99.2 | 26 | PDB header: transferase Chain: A: PDB Molecule: 1-deoxy-d-xylulose-5-phosphate synthase; PDBTitle: 1-deoxy-d-xylulose 5-phosphate synthase (dxs) from deinococcus2 radiodurans |

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|----|-------------------------|-----------|--------------|------|----|---|
| 54 | d1r9ja2 | Alignment | not modelled | 99.1 | 22 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like PP module |
| 55 | d1litz1 | Alignment | not modelled | 99.0 | 18 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like PP module |
| 56 | c2o1sC | Alignment | not modelled | 99.0 | 24 | PDB header: transferase Chain: C: PDB Molecule: 1-deoxy-d-xylulose-5-phosphate synthase; PDBTitle: 1-deoxy-d-xylulose 5-phosphate synthase (dxs) from escherichia coli |
| 57 | d1gpu1 | Alignment | not modelled | 99.0 | 20 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like PP module |
| 58 | c5vrB | Alignment | not modelled | 98.9 | 20 | PDB header: transferase Chain: B: PDB Molecule: transketolase; PDBTitle: crystal structure of a transketolase from neisseria gonorrhoeae |
| 59 | c5nd5A | Alignment | not modelled | 98.9 | 18 | PDB header: transferase Chain: A: PDB Molecule: transketolase; PDBTitle: crystal structure of transketolase from chlamydomonas reinhardtii in2 complex with tpp and mg2+ |
| 60 | c3uk1A | Alignment | not modelled | 98.9 | 20 | PDB header: transferase Chain: A: PDB Molecule: transketolase; PDBTitle: crystal structure of a transketolase from burkholderia thailandensis2 with an oxidized cysteinesulfonic acid in the active site |
| 61 | c6ouwA | Alignment | not modelled | 98.8 | 27 | PDB header: transferase Chain: A: PDB Molecule: 1-deoxy-d-xylulose-5-phosphate synthase; PDBTitle: 1-deoxy-d-xylulose 5-phosphate synthase (dxps) from deinococcus2 radiodurans with enamine intermediate bound |
| 62 | c4c7vA | Alignment | not modelled | 98.8 | 16 | PDB header: transferase Chain: A: PDB Molecule: transketolase; PDBTitle: apo transketolase from lactobacillus salivarius at 2.2a resolution |
| 63 | c2r8pA | Alignment | not modelled | 98.8 | 18 | PDB header: transferase Chain: A: PDB Molecule: transketolase 1; PDBTitle: transketolase from e. coli in complex with substrate d-fructose-6-2 phosphate |
| 64 | c3m7iA | Alignment | not modelled | 98.8 | 21 | PDB header: transferase Chain: A: PDB Molecule: transketolase; PDBTitle: crystal structure of transketolase in complex with thiamine2 diphosphate, ribose-5-phosphate(pyranose form) and magnesium ion |
| 65 | c3komB | Alignment | not modelled | 98.8 | 19 | PDB header: transferase Chain: B: PDB Molecule: transketolase; PDBTitle: crystal structure of apo transketolase from francisella tularensis |
| 66 | c2e6kB | Alignment | not modelled | 98.7 | 21 | PDB header: transferase Chain: B: PDB Molecule: transketolase; PDBTitle: x-ray structure of thermus thermophilus hb8 tt0505 |
| 67 | c3mosA | Alignment | not modelled | 98.7 | 19 | PDB header: transferase Chain: A: PDB Molecule: transketolase; PDBTitle: the structure of human transketolase |
| 68 | c3rimA | Alignment | not modelled | 98.7 | 16 | PDB header: transferase Chain: A: PDB Molecule: transketolase; PDBTitle: crystal structure of mycobacterium tuberculosis transketolase2 (rv1449c) |
| 69 | c3hyLB | Alignment | not modelled | 98.7 | 15 | PDB header: transferase Chain: B: PDB Molecule: transketolase; PDBTitle: crystal structure of transketolase from bacillus anthracis |
| 70 | d1qs0a | Alignment | not modelled | 98.6 | 16 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase PP module |
| 71 | c1litzC | Alignment | not modelled | 98.6 | 18 | PDB header: transferase Chain: C: PDB Molecule: transketolase; PDBTitle: maize transketolase in complex with tpp |
| 72 | c5hgxA | Alignment | not modelled | 98.6 | 18 | PDB header: transferase Chain: A: PDB Molecule: transketolase; PDBTitle: crystal structure of transketolase mutant - h261f from pichia stipitis |
| 73 | c1r9jB | Alignment | not modelled | 98.5 | 21 | PDB header: transferase Chain: B: PDB Molecule: transketolase; PDBTitle: transketolase from leishmania mexicana |
| 74 | c1tkcA | Alignment | not modelled | 98.5 | 16 | PDB header: transferase Chain: A: PDB Molecule: transketolase; PDBTitle: specificity of coenzyme binding in thiamin diphosphate2 dependent enzymes: crystal structures of yeast3 transketolase in complex with analogs of thiamin4 diphosphate |
| 75 | d2ieaa2 | Alignment | not modelled | 98.5 | 20 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like PP module |
| 76 | c4qoyC | Alignment | not modelled | 98.3 | 21 | PDB header: oxidoreductase Chain: C: PDB Molecule: pyruvate dehydrogenase e1 component; PDBTitle: novel binding motif and new flexibility revealed by structural2 analysis of a pyruvate dehydrogenase-dihydrolipoyl acetyltransferase3 sub-complex from the escherichia coli pyruvate dehydrogenase multi-4 enzyme complex |
| 77 | c3ahhA | Alignment | not modelled | 98.3 | 22 | PDB header: lyase Chain: A: PDB Molecule: xylulose 5-phosphate/fructose 6-phosphate phosphoketolase; PDBTitle: h142a mutant of phosphoketolase from bifidobacterium breve complexed2 with acetyl thiamine diphosphate |
| 78 | c2g28A | Alignment | not modelled | 98.2 | 22 | PDB header: oxidoreductase Chain: A: PDB Molecule: pyruvate dehydrogenase e1 component; PDBTitle: e. coli pyruvate dehydrogenase h407a variant2 phosphonolactylthiamin diphosphate complex |
| | | | | | | Fold: Thiamin diphosphate-binding fold (THDP-binding) |

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|-----|-------------------------|-----------|--------------|------|----|---|
| 79 | d1itz2 | Alignment | not modelled | 97.2 | 14 | Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like Pyr module |
| 80 | c2jgdA | Alignment | not modelled | 96.9 | 18 | PDB header: oxidoreductase Chain: A: PDB Molecule: 2-oxoglutarate dehydrogenase e1 component; PDBTitle: e. coli 2-oxoglutarate dehydrogenase (e1o) |
| 81 | d1zpda2 | Alignment | not modelled | 96.4 | 17 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 82 | d1gpu2 | Alignment | not modelled | 96.0 | 14 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like Pyr module |
| 83 | d1w85b1 | Alignment | not modelled | 95.4 | 19 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase Pyr module |
| 84 | d1ybha1 | Alignment | not modelled | 95.4 | 16 | Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Pyruvate oxidase and decarboxylase, middle domain |
| 85 | c2yicC | Alignment | not modelled | 95.4 | 24 | PDB header: lyase Chain: C: PDB Molecule: 2-oxoglutarate decarboxylase; PDBTitle: crystal structure of the suca domain of mycobacterium smegmatis2 alpha-ketoglutarate decarboxylase (triclinic form) |
| 86 | d2ez9a2 | Alignment | not modelled | 95.4 | 19 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 87 | d2r8oa1 | Alignment | not modelled | 95.2 | 17 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like Pyr module |
| 88 | d2ji7a2 | Alignment | not modelled | 94.7 | 15 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 89 | d1r9ja1 | Alignment | not modelled | 94.5 | 16 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: TK-like Pyr module |
| 90 | d1q6za2 | Alignment | not modelled | 94.4 | 12 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 91 | d2djia2 | Alignment | not modelled | 94.3 | 18 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 92 | d2djia1 | Alignment | not modelled | 93.9 | 11 | Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Pyruvate oxidase and decarboxylase, middle domain |
| 93 | d2ozlb1 | Alignment | not modelled | 93.1 | 12 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase Pyr module |
| 94 | d1ovma2 | Alignment | not modelled | 92.8 | 10 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 95 | d2ji7a1 | Alignment | not modelled | 92.6 | 16 | Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Pyruvate oxidase and decarboxylase, middle domain |
| 96 | d2ihta2 | Alignment | not modelled | 90.7 | 10 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 97 | d1ozha2 | Alignment | not modelled | 89.8 | 18 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 98 | d1pvda2 | Alignment | not modelled | 89.2 | 18 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 99 | d1t9ba2 | Alignment | not modelled | 88.6 | 19 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 100 | d1qs0b1 | Alignment | not modelled | 88.4 | 15 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase Pyr module |
| 101 | c1ni4D | Alignment | not modelled | 87.0 | 12 | PDB header: oxidoreductase Chain: D: PDB Molecule: pyruvate dehydrogenase e1 component: beta PDBTitle: human pyruvate dehydrogenase |
| 102 | d1ybha2 | Alignment | not modelled | 86.7 | 18 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Pyruvate oxidase and decarboxylase Pyr module |
| 103 | c1um9D | Alignment | not modelled | 86.2 | 18 | PDB header: oxidoreductase Chain: D: PDB Molecule: 2-oxo acid dehydrogenase beta subunit; PDBTitle: branched-chain 2-oxo acid dehydrogenase (e1) from thermus2 thermophilus hb8 in apo-form |
| 104 | c1ik6A | Alignment | not modelled | 85.6 | 23 | PDB header: oxidoreductase Chain: A: PDB Molecule: pyruvate dehydrogenase; PDBTitle: 3d structure of the e1beta subunit of pyruvate2 dehydrogenase from the archeon pyrococcus aerophilum |
| 105 | d1umdb1 | Alignment | not modelled | 84.8 | 16 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase Pyr module |
| 106 | d1ik6a1 | Alignment | not modelled | 81.7 | 15 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase Pyr module |

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|-----|--------------------------|---|-----------|--------------|------|----|---|
| 107 | c3dufD_ |  | Alignment | not modelled | 80.6 | 17 | PDB header: oxidoreductase/transferase Chain: D: PDB Molecule: pyruvate dehydrogenase e1 component subunit beta; PDBTitle: snapshots of catalysis in the e1 subunit of the pyruvate2 dehydrogenase multi-enzyme complex |
| 108 | c1olsB_ |  | Alignment | not modelled | 80.1 | 11 | PDB header: oxidoreductase Chain: B: PDB Molecule: 2-oxoisovalerate dehydrogenase beta subunit; PDBTitle: roles of his291-alpha and his146-beta' in the reductive acylation2 reaction catalyzed by human branched-chain alpha-ketoacid3 dehydrogenase |
| 109 | d2bfd1b1 |  | Alignment | not modelled | 79.9 | 12 | Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase Pyr module |
| 110 | c5ftwA_ |  | Alignment | not modelled | 76.8 | 15 | PDB header: transferase Chain: A: PDB Molecule: chemotaxis protein methyltransferase; PDBTitle: crystal structure of glutamate o-methyltransferase in2 complex with s-adenosyl-l-homocysteine (sah) from3 bacillus subtilis |
| 111 | c2bp7F_ |  | Alignment | not modelled | 71.7 | 10 | PDB header: oxidoreductase Chain: F: PDB Molecule: 2-oxoisovalerate dehydrogenase beta subunit; PDBTitle: new crystal form of the pseudomonas putida branched-chain2 dehydrogenase (e1) |
| 112 | c2xt6B_ |  | Alignment | not modelled | 63.9 | 28 | PDB header: lyase Chain: B: PDB Molecule: 2-oxoglutarate decarboxylase; PDBTitle: crystal structure of mycobacterium smegmatis alpha-ketoglutarate2 decarboxylase homodimer (orthorhombic form) |
| 113 | c3vs9F_ |  | Alignment | not modelled | 56.7 | 12 | PDB header: transferase Chain: F: PDB Molecule: type iii polyketide synthase; PDBTitle: crystal structure of type iii pks arsc mutant |
| 114 | c5xlyA_ |  | Alignment | not modelled | 52.9 | 13 | PDB header: transferase Chain: A: PDB Molecule: chemotaxis protein methyltransferase 1; PDBTitle: crystal structure of cher1 in complex with c-di-gmp-bound mapz |
| 115 | c3ibsA_ |  | Alignment | not modelled | 45.9 | 13 | PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved hypothetical protein batb; PDBTitle: crystal structure of conserved hypothetical protein batb from2 bacteroides thetaiaomicron |
| 116 | c4wbcC_ |  | Alignment | not modelled | 39.9 | 13 | PDB header: oxidoreductase Chain: C: PDB Molecule: 2-keto acid:ferredoxin oxidoreductase subunit alpha; PDBTitle: conserved hypothetical protein pf1771 from pyrococcus furiosus solved2 by sulfur sad using swiss light source data |
| 117 | d2okfa1 |  | Alignment | not modelled | 36.0 | 12 | Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: Xish-like |
| 118 | d2inba1 |  | Alignment | not modelled | 35.1 | 10 | Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: Xish-like |
| 119 | d1bi5a1 |  | Alignment | not modelled | 28.2 | 20 | Fold: Thiolase-like Superfamily: Thiolase-like Family: Chalcone synthase-like |
| 120 | c2x98A_ |  | Alignment | not modelled | 27.5 | 22 | PDB header: hydrolase Chain: A: PDB Molecule: alkaline phosphatase; PDBTitle: h.salinarum alkaline phosphatase |