

Product datasheet for **SC118108**

ALDOB (NM_000035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALDOB (NM_000035) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDOB
Synonyms:	ALDB; ALDO2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118108 sequence for NM_000035 edited (data generated by NextGen Sequencing)

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ATGGCCCACCGATTTCCAGCCCTCACCCAGGAGCAGAAGAAGGAGCTCTCAGAAATTGCC
CAGAGCATTGTTGCCAATGGAAAAGGGATCCTGGCTGCAGATGAATCTGTAGGTACCATG
GGGAACCGCCTGCAGAGGATCAAGGTGGAAAACACTGAAGAGAACC GCCCGCAGTTC CGA
GAAATCTCTTCTCTGTGGACAGTTCCATCAACCAGAGCATCGGGGGTGTGATCCTTTTC
CACGAGACCCTCTACCAGAAGGACAGCCAGGAAAGCTGTTCCAGAAACATCCTCAAGGAA
AAGGGGATCGTGGTGGGAATCAAGTTAGACCAAGGAGGTGCTCCTTGCAGGAACAAAC
AAAGAAACCACCATCAAGGGCTTGATGGCCTCTCAGAGCGCTGTGCTCAGTACAAGAAA
GATGGTGTGACTTTGGGAAGTGGCGTGTGCTGAGGATTGCCGACCAGTGTCCATCC
AGCCTCGCTATCCAGGAAAACGCCAACGCCCTGGCTCGCTACGCCAGCATCTGTCAGCAG
AATGGACTGGTACCTATTGTTGAACCAGAGGTAATTCCTGATGGAGACCATGACCTGGAA
CACTGCCAGTATGTTACTGAGAAGTCCCTGGCTGCTGTCTACAAGGCCCTGAATGACCAT
CATGTTTACCTGGAGGGCACCTGCTAAAGCCCAACATGGTGACTGCTGGACATGCCTGC
ACCAAGAAGTATACTCCAGAACAAGTAGCTATGGCCACCCTAACAGCTCTCCACCGTACT
GTTCTGCAGCTGTTCTGGCATCTGCTTTTGTCTGGTGGCATGAGTGAAGAGGATGCC
ACTCTCAACCTCAATGCTATCAACCTTTGCCCTACCAAAGCCCTGGAACTAAGTTTC
TCTTATGGACGGGCCCTGCAGGCCAGTGCCTGGCTGGCTGGGGTGGCAAGGCTGCAAAAC
AAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGGCTAACTGCCAGGCGGCCAAA
GGACAGTATGTTACATACGGGTTCTCTGGGGCTGCTTCCACCCAGTCGCTTTCACAGCC
TGCTATACCTACTAG
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Clone variation with respect to NM_000035.3
1035 c=>t



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000035 unedited
 TCAGCATTTTGTAAACGACTACTATAGGGCGCCGCGAAATTCGCACCCAGGCCTCAC
 CCACAGCTTTTGTATCTAGGAGGACTCTTCTCTCCAACTACCTGTCACCATGGCCCA
 CCGATTTCCAGCCCTCACCCAGGAGCAGAAGAAGGAGCTCTCAGAAATTGCCAGAGCAT
 TGTTGCCAATGGAAGGGGATCCTGGCTGCAGATGAATCTGTAGTACCATGGGGAACCG
 CCTGCAGAGGATCAAGGTGAAAACTGAAGAGAACC GCCGAGTCCGAGAAATCCT
 CTTCTCTGTGGACAGTTCATCAACCAGAGCATCGGGGGTGTGATCCTTTCCACGAGAC
 CCTCTACCAGAAGGACAGCCAGGAAAGCTGTTTCAGAAACATCCTCAAGGAAAAGGGAT
 CGTGGTGGGAATCAAGTTAGACCAAGGAGGTGCTCCTCTTGCAGGAACAAACAAAGAAAC
 CACCATTCAAGGGCTTGATGGCCTCTCAGAGCGCTGTGCTCAGTACAAGAAAGATGGTGT
 TGACTTTGGGAAGTGGCGTGTGCTGAGGATTGCCGACAGTGTCCATCCAGCCTCGC
 TATCCAGAAAACGCCAACGCCCTGGCTCGCTACGCCAGCATCTGTCAGCAGAATGGACT
 GGTACCTATTGTTGAACCAGAGGTAATCCTGATGGAGACCATGACCTGNAACACTGCCA
 GTATGTTACTGAGAAGGTCTGGCTGCTGTCTACAANGCCCTGAATGACCATCATGNNNT
 ACCTGGAGGCACCCTGCTAAAGCCACATGGTACTGCTGGACATGCCTGCACCAAGAGT
 ATACTNCAGAACAGTAGCTAGGCCACCGTAACAGCTCNTCACGTACTGGTCTGCAGCTG
 TNCCTGGCATCTGCTTTTGTCTGGTGGCATGAGTGAAAAGGAGCCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000035 unedited
 AACCTTGATAGGATATTTATTTCTTTGGTTGCAGCTATCTCCTTCCCAACCTACCACT
 GCTAATACTGTTTCATAAGATGCACTTGCTCTACACTCAGCTAATGAGGTGTTTCAATCA
 GCAGTTGTTCTTTGGATGAGGAGCCGATATTGTTTTAAAGCCTATTATTTTCTGGGTGG
 GTATTCTGGAGCATGGGAGCTGAAAGTGTGCAAGGTATACTGCTGTGTGAAATTTGAT
 CAGGTGCGGGGATTCATTTTTATGTTTCAATACTGATTTATTTTTTCCCCCTGTACT
 TAAGATTTAACATGTGTTGATTTCCAGCAGTTCAAATCTAATTGTGCGAATTTCCAGG
 ATTGGAGGAAAAGTTGCTCCCTTTCAGCCCTCCTACTAGAAGCACTGGAGCTAGGCTGGC
 GGGCATTGGACCCTAGTAGGTATAGCAGGCTGTGAAGAGCGACTGGGTGGAAAGCAGCCCC
 AGAAGAACCCGTATGAACATACTGTCCTTTGGCCGCTGGCAGTTAGCCATGGCCCGCTT
 CATAAAAGCCTCCTGGGTGCTCCTTGTGTCAGCCTTGCCACCCAGGCAGCCAGTGC
 ACTGGCCTGCAGGGCCCGTCCATAAGAGAACTTAGTTTCCAGGGCTTTGGTAGAGGGCA
 AAGGTTGATAGCATTGAGGTTGAGAGTGGCATTCTCTTCACTATGCCACCCAGACAAAAA
 GCAGATGCCAAGAACAGCTGCAGGAACAGTACGGTGGAGAGCTGTACCCTGGGCATAGC
 TACTTGTCTTGTAGTATACTTCTTGGGTGCAGGCATGTCCAGCAGTCACCATGTTTGGGC
 TTTACCAGGGTGCCTTCCAGTTAACATGATGGGCATTACGGCCCTGTAGACAGCAGCC
 CAGGACTTTTTAGTAACATCTGGGAAGTGTCCAGTAATGGCCTA

Restriction Sites:

Please inquire

ACCN:

NM_000035

Insert Size:

1680 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_000035.2](#), [NP_000026.2](#)

RefSeq Size: 1669 bp

RefSeq ORF: 1095 bp

Locus ID: 229

UniProt ID: [P05062](#)

Cytogenetics: 9q31.1

Domains: glycolytic_enzy

Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

Gene Summary: Fructose-1,6-bisphosphate aldolase (EC 4.1.2.13) is a tetrameric glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Vertebrates have 3 aldolase isozymes which are distinguished by their electrophoretic and catalytic properties. Differences indicate that aldolases A, B, and C are distinct proteins, the products of a family of related 'housekeeping' genes exhibiting developmentally regulated expression of the different isozymes. The developing embryo produces aldolase A, which is produced in even greater amounts in adult muscle where it can be as much as 5% of total cellular protein. In adult liver, kidney and intestine, aldolase A expression is repressed and aldolase B is produced. In brain and other nervous tissue, aldolase A and C are expressed about equally. There is a high degree of homology between aldolase A and C. Defects in ALDOB cause hereditary fructose intolerance. [provided by RefSeq, Dec 2008]