

## ALDOB cDNA

Catalog Number: ATGD0003

### PRODUCT INFORMATION

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**Catalog number**

ATGD0003

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_000026.2

**Alternative Names**

ALDB, ALDO2

**mRNA Refseq**

NM\_000035.3

**OMIM**

612724

**Chromosome location**

9q21.3-q22.2

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

1095bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted Nde I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

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Fructose-bisphosphate aldolase B, also known as ALDOB, is one of three known aldolase isoenzymes, and is found in kidney and small adult intestine where it is associated with aldolases A or C. ALDOB catalyzes the reversible cleavage of fructose 1-phosphate into dihydroxyacetone phosphate and glyceraldehyde. It is regulated by the hormones Insulin and glucagon and has been implicated in hereditary fructose intolerance disease

## DATA

### Sequence nucleotides

```
ATGGCCCACC GATTTCCAGC CCTCACCCAG GAGCAGAAGA AGGAGCTCTC AGAAATTGCC CAGAGCATTG
TTGCCAATGG AAAGGGGATC CTGGCTGCAG ATGAATCTGT AGGTACCATG GGGAACCGCC TGCAGAGGAT
CAAGGTGGAA AACACTGAAG AGAACCGCCG GCAGTTCCGA GAAATCCTCT TCTCTGTGGA CAGTTCCATC
AACCAGAGCA TCGGGGGTGT GATCCTTTTC CACGAGACCC TCTACCAGAA GGACAGCCAG GGAAAGCTGT
TCAGAAACAT CCTCAAGGAA AAGGGGATCG TGGTGGGAAT CAAGTTAGAC CAAGGAGGTG CTCCTCTTGC
AGGAACAAAC AAAGAAACCA CCATTCAAGG GCTTGATGGC CTCTCAGAGC GCTGTGCTCA GTACAAGAAA
GATGGTGTG ACTTTGGGAA GTGGCGTGCT GTGCTGAGGA TTGCCGACCA GTGTCCATCC AGCCTCGCTA
TCCAGGAAAA CGCCAACGCC CTGGCTCGCT ACGCCAGCAT CTGTCAGCAG AATGGACTGG TACCTATTGT
TGAACCAGAG GTAATTCCTG ATGGAGACCA TGACCTGGAA CACTGCCAGT ATGTTACTGA GAAGGTCCTG
GCTGCTGTCT ACAAGGCCCT GAATGACCAT CATGTTTACC TGGAGGGCAC CCTGCTAAAG CCCAACATGG
TGACTGCTGG ACATGCCTGC ACCAAGAAGT AACTCCAGA ACAAGTAGCT ATGGCCACCG TAACAGCTCT
CCACCGTACT GTTCCTGCAG CTGTTCTGG CATCTGCTTT TTGTCTGGTG GCATGAGTGA AGAGGATGCC
ACTCTCAACC TCAATGCTAT CAACCTTTGC CCTCTACCAA AGCCCTGGAA ACTAAGTTTC TCTTATGGAC
GGGCCCTGCA GGCCAGTGCA CTGGCTGCCT GGGGTGGCAA GGCTGCAAAC AAGGAGGCAA CCCAGGAGGC
TTTTATGAAG CGGGCCATGG CTAAGTCCA GCGGCCAAA GGACAGTATG TTCACACGGG TTCTTCTGGG
GCTGCTTCCA CCCAGTCGCT CTTACAGCC TGCTATACCT ACTAG
```

### Transaction Sequence

```
MAHRFPALTQ EQKKELSEIA QSIVANGKGI LAADESVGTM GNRLQRIKVE NTEENRRQFR EILFSVDSSI NQSIGGVILF
HETLYQKDSQ GKLFRNILKE KGIVVGIKLD QGGAPLAGTN KETTIQGLDG LSERCAQYKK DGVDGFKWRA VLRIADQCP
SLAIQENANA LARYASICQQ NGLVPIVEPE VIPDGDHDL HCQYVTEKVL AAVYKALNDH HVYLEGTLK PNMVTAGHAC
TKKYTPEQVA MATVTALHRT VPAAVPGICF LSGGMSEEDA TLNLNAINLC PLPKPWKLSF SYGRALQASA LAAWGGKAAN
KEATQEAQFMK RAMANCQAAK GQYVHTGSSG AASTQSLFTA CYTY
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