

Product datasheet for **SC126036**

Aldolase (ALDOA) (BC010568) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldolase (ALDOA) (BC010568) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDOA
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene sequence for BC010568 edited

```
CAGCTGAATAGGCTGCGTTCCTTTGGAACGCGCAGCAGAACGAGTTCTGGTGACCCTAG
CCGCGTTCGCTCCTTAGTCCTTTTCGCTACCCACCGGCGTACCAGGCAGACCCACCCCGT
CCTGTGCCAGGAAAGCACTGCCACCGGCACCATGCCACCCATACCCAGCACTGACCCC
GGAGCAGAAGAAGGAGCTGTCTGACATCGCTCACCGCATTGTGGCTCCGGGCAAGGGCAT
CCTGGTGCAGATGAGTCCACCGGAAGCATTGCCAAGCGCCTGCAGTCCATTGGCACCGA
GAACACCGAGGAGAACAGGCGTCTACCGCCAGCTGTGCTGACTGCAGACGACCGTGT
GAATCCCTGCATTGGGGGGGTGATCCTCTTCCACGAGACACTGTACCAGAAGGCAGATGA
TGGACGTCCCTTCCCCCAAGTTATCAAGTCCAAGGGTGGTGTGGGCAATTAAGGTAGA
TAAGGGTGTGGTCCCTGGCAGGAACCAATGGCGAGACAACCTACCCAGGGGCTGGATGG
GCTGTCTGAACGCTGTGCCAGTATAAGAAGGATGGAGCCGACTTTGCCAAGTGGCGCTG
TGTGCTAAAGATTGGGAACATACTCCCTCGGCCCTGGCCATCATGGAAAATGCCAATGT
TCTGGCCCGTTATGCCAGCATCTGCCAGCAGAATGGCATTGTACCCATTGTGGAGCCTGA
AATTCTCCCTGATGGGACCATGACTTGAAGCGCTGCCAGTATGTTACTGAGAAGGTCT
GGCGGCTGTCTACAAGGCTCTGAGCGACCACCATGTCTATCTGGAAGGCACATTGCTGAA
GCCCAACATGGTCACCCCTGGCCATGCTTGACCCAGAAATTTTCCAATGAGGAGATTGC
CATGGCAACGGTACAGCACTTCGTGCGACAGTGCCCCCTGCTGTCACTGGGGTCACTTT
CCTGTCTGGAGGGCAGAGTGAGGAAGAGGCATCCATCAACCTCAATGCTATCAACAAGTG
CCCCCTGTGAAGCCATGGGCCTTGACTTTCTCCTATGGTCGAGCCCTGCAGGCCTCTGC
TCTAAAGGCTGGGGTGGGAAGAAGGAGAACCTGAAGGCAGCCCAGGAGGAGTACATCAA
GCGCGCCCTGGCCAACAGCCTCGCTTGTCAAGGAAAGTATACCCCAAGTGGCCAGTCTGG
AGCCGAGCCAGTGAATCTCTCTATCTAACCATGCCTACTAACCAGAGCTGAACTA
AGGCTGCTCCATCAACTCCAGGCCCTGCCTACCCACTTGCTATTGAAGAGGGGTCTT
CAGGCTCTTTCCATCACTCTTGTGCTGCCCTCGTGTGGGTGTGTCTGTGAATGCTA
AATCTGCCATCCCTTCCAGCCCCTGCCAATAAACAATATTTAAGGGGGAAAAAAAAAAAA
AAAAAAAAAAAAAAAA
```



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for BC010568 unedited GGGCTCAGGATTTTGTAAACGACTTTACTATAGGGCGGCCGCGCAATTCGATCTGGTAC CCGTCCGGAATCCCAGGATATCGTCGACCCACGCGTCCGAGCTGAATAGGCTGCGTTC TCTTGGAACGCGCAGCAGAACGAGGTTCTGGTGACCTAGCCGCGTTCGCTCCTTAGTCC TTTGCGCTACCCACCGCGTACCAGGCAGACCCACCCGTCCTGTGCCAGGAAAGCACTG CCACCGGCACCATGCCCCACCCATACCCAGCACTGACCCCGGAGCAGAAGAAGGAGCTGT CTGACATCGCTCACCGCATTGTGGCTCCGGGCAAGGGCATCCTGGCTGCAGATGAGTCCA CCGGAAGCATTGCCAAGCGCTGCAGTCCATTGGCACCGAGAACCAGGAGAGAACAGGC GCTTCTACCGCCAGCTGTGCTGACTGCAGACGACCGTGTGAATCCCTGCATTGGGGGG TGATCCTCTCCACGAGACACTGTACCAGAAGGCAGATGATGGACGTCCCTTCCCCAAG TTATCAAGTCCAAGGGTGGTGTGGCATTAAAGGTAGATAAGGGTGTGGTGCCCTGG CAGGAACCAATGGCGAGACAACCTACCCAGGGGCTGGATGGGCTGTCTGAACGCTGTGCC AGTATAAGAAGGATGGAGCCGACTTTGCCAAGTGGCGCTGTGTGCTAAAGATTGGGGAAC ATACTCCCTCGGCCCTGGCCATCATGGGAAATGCCAATGTTCTGGCCGTTATGCCAGCA TCTGCCAGCAGAATGGCATTGTACCCATTGTGGAGCCTNGAATTCTCCCTGATGGGGACC CATGACTGAAGCGCTGCCAGTATGTTACTGAGAAGGTCTGGCNGCTGTGCTACAGGCTC TGAGCGC
Restriction Sites:	NotI-NotI
ACCN:	BC010568
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:	<ol style="list-style-type: none"> 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:	<u>BC010568.1</u> , <u>AAH10568.1</u>
RefSeq Size:	1455 bp
Locus ID:	226
Cytogenetics:	16p11.2
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

Gene Summary:

This gene encodes a member of the class I fructose-bisphosphate aldolase protein family. The encoded protein is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Three aldolase isozymes (A, B, and C), encoded by three different genes, are differentially expressed during development. Mutations in this gene have been associated with Glycogen Storage Disease XII, an autosomal recessive disorder associated with hemolytic anemia. Disruption of this gene also plays a role in the progression of multiple types of cancers. Related pseudogenes have been identified on chromosomes 3 and 10. [provided by RefSeq, Sep 2017]