

Product datasheet for **SC320187**

Aldehyde dehydrogenase 10 (ALDH3A2) (NM_001031806) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldehyde dehydrogenase 10 (ALDH3A2) (NM_001031806) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aldehyde dehydrogenase 10
Synonyms:	ALDH10; FALDH; SLS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001031806.1
 CCAGCGCCCCGGACCGTGCAGTTCTCTGCAGGACCAGGCCATGGAGCTCGAAGTCCGGC
 GGGTCCGACAGGCGTTCTGTCCGGCCGGTCGCGACCTCTGCGGTTTTCGGCTGCAGCAGC
 TGGAGGCCCTGCGGAGGATGGTGCAGGAGCGCGAGAAGGATATCCTGACGGCCATCGCCG
 CCGACCTGTGCAAGAGTGAATTCATGTGTACAGTCAGGAAGTCATTACTGTCCTTGGGG
 AAATTGATTTTATGCTTGAGAATCTTCTGAATGGGTTACTGCTAAACCAGTTAAGAAGA
 ACGTGCTCACCATGCTGGATGAGGCCTATATTCAGCCACAGCCTCTGGGAGTGGTGCTGA
 TAATCGGAGCTTGGAATTACCCCTTCGTTCTCACCATTACGCCACTGATAGGAGCCATCG
 CTGCAGGAAATGCTGTGATTATAAAGCCTTCTGAACTGAGTGAAAATACAGCCAAGATCT
 TGGCAAAGCTTCTCCCTCAGTATTTAGACCAGGATCTCTATATTGTTATTAATGGTGGTG
 TTGAGGAAACCACGGAGCTCCTGAAGCAGCGATTTGACCACATTTTCTATACGGGAAACA
 CTGCGGTTGGCAAATTTGTCATGGAAGCTGCTGCCAAGCATCTGACCCCTGTGACTCTTG
 AACTGGGAGGGAAAAGTCCATGTTATATTGATAAAGATTGTGACCTGGACATTGTTTGCA
 GACGCATAACCTGGGAAAATACATGAATTGTGGCCAAACCTGCATTGCACCCGACTATA
 TTCTCTGTGAAGCATCCCTCCAAAATCAAATTGTATGGAAGATTAAAGAAACAGTGAAGG
 AATTTTATGGAGAAAATATAAAGAGTCTCCTGATTATGAAAGGATCATCAATCTTCGTC
 ATTTTAAGAGGATACTAAGTTTGCTTGAAGGACAAAAGATAGCTTTTGGTGGGGAGACTG
 ATGAGGCCACACGCTACATAGCCCAACAGTACTTACCGATGTTGATCCTAAAACCAAGG
 TGATGCAAGAAGAAATTTTGGACCAATCTTCCAATAGTGCCTGTGAAAATGTAGATG
 AGGCCATAAAATTCATAAATGAACGTGAAAAGCCTCTGGCTCTTTATGTATTTTCGCATA
 ACCATAAGCTCATCAAACGGATGATTGATGAGACATCCAGTGGAGGTGTCACAGGCAATG
 ACGTCATTATGCACCTTACGCTCAACTCTTCCATTTGGAGGAGTGGGTTCCAGTGGGA
 TGGGACTTATCACGAAAACATAGTTTTGATACTTTTTCTCATCAGCGTCCCTGTTTTAT
 TAAAAAGTTTAAAGAGAGAAGGTGCTAACAAACTCAGATATCCTCCCAACAGCCAGTCAA
 AGGTGGATTGGGAAAATTTTTCTCTTGAACGGTTCAACAAAGAAAAACTCGGTCTCC
 TGTGCTCACTTCTCTGGGTATTGTAGCCGCTGTGCTTGTCAAGAAATACCAAGCTGTGC
 TGAGGAGAAAGGCCCTGTGATTTTTCTGGTAGTTCACAGACTGCCTGGTCCAGTAAGC
 AGAGATGAACACCAGATTTCAAACCCAGCCCTGTCTGTTAAGAGTGAGGCTGAATATTA
 CTGAAGAATGATCCTGTTCAACCTCCTAGTGCCTACTGAATTATCCTCTTTAAATG
 GTTAATGAACCAATAATTTTTAAATCATACCAAAAATAGTAAGAAAATATGCAAACACTC
 TGTGATCAAACCTTAAAAGTCATTGCCATTCATCATTAAATAAAAGTTGCCATTTCAACTAC
 GTCCCAACATTCCTAATAGGGTATTCAGGGAACCTGTCTAAATTTGTGCTTATCTAAAT
 CTTGGAACTTTGAGCTAGGGGAGGAGAATGATTAGACTAAATACAAACTGCGGGGTTGT
 AAGGGAGTCTCAGAACCTCACTGAATCCTTCACTCCAGTAAATGGCACTGCTCACTTCT
 GCCTCTGCTGCCACCATCACTGTGTGAAGCTTTCAAGAGCTTGGTACTTCCCAGGGCTAC
 CGGCAGTCTCTGTAGTCCAGAGAGGTGAGATTAGATCTTCTTGGTTCCTGTGAGGTTT
 CAGGCACTAAAACCTATGTGGGAAGGGAGGGTTACTCCTCCTCCAATGGGACTCAAG
 GACTTGACCTCCAGGAGTAGGCCCTGGTCAGAAGTGCCATCTCACCAGTGGTCTTCATT
 CTTCTCATTTCATTTATCATCCTGTGTTCTGTTTAGTTGCAACAATCTCTTGTGACT
 AATGTCACTCAAAGCATCTTGTAAATCCTAGGGCTTCTGGAAGTTAGTTGCCAAAGTCA
 TGCAAGCATCACCTGTCACTTCTGTGTTGGAGTTATAGAATTCTACATCTTATAAAACCT
 AACTGGCATTTAAAAAATACTGTGGCCGGGCGTGGTGGCTCATGCCTGTAATCCCAGCAC
 TTTGGGAGGCCGAGGTGGGAGGATTGCTTGAGTCCAGGAATTTGAGACCAGCCTGGACAA
 CACAGTGAGACCTCATCTATCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001031806

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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>NM_001031806.1</u> , <u>NP_001026976.1</u>
RefSeq Size:	3823 bp
RefSeq ORF:	1527 bp
Locus ID:	224
UniProt ID:	<u>P51648</u>
Cytogenetics:	17p11.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation
Gene Summary:	Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This gene product catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Mutations in the gene cause Sjogren-Larsson syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes the longer isoform (1).