

## Product datasheet for **SC119708**

### ALDH3B2 (NM\_000695) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH3B2 (NM_000695) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDH3B2
Synonyms:	ALDH8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119708 sequence for NM_000695 edited (data generated by NextGen Sequencing)

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ATGAAGGATGAACCACGGTCCACGAACCTGTTTCATGAAGTGGACTCGGTCTTCATCTGG
AAGGAACCCCTTTGGCCTGGTCTCATCATCGCACCCCTGGAACCTACCCACTGAACCTGACC
CTGGTGCTCTGGTGGGCGCCCTCGCCGAGGGAATTGCGTGGTCTGAAGCCGTCAGAA
ATCAGCCAGGGCACAGAGAAGGTCCTGGCTGAGGTGCTGCCCCAGTACCTGGACCAGAGC
TGCTTTGCCGTGGTGGTGGGCGGACCCAGGAGACAGGGCAGCTGCTAGAGCACAAGTTG
GACTACATCTTCTCACAGGGAGCCCTCGTGTGGGCAAGATTGTCATGACTGCTGCCACC
AAGCACCTGACGCCTGTCACCCTGGAGCTGGGGGGCAAGAACCCCTGCTACGTGGACGAC
AACTGCGACCCCCAGACCGTGGCCAACCCGCTGGCCTGGTTCTGCTACTTCAATGCCGGC
CAGACCTGCGTGGCCCCGACTACGTCTGTGCAGCCCCGAGATGCAGGAGAGGCTGCTG
CCCGCCCTGCAGAGCACCATCACCCGTTTCTATGGCGACGACCCCGAGAGCTCCCAAAC
CTGGGCCGCATCATCAACCAGAAACAGTTCACGCGGCTGCGGGCATTGCTGGGCTGCGGC
CGCGTGGCCATTGGGGCCAGAGCAACGAGAGCGATCGCTACATCGCCCCACGGTGTG
GTGGACGTGCAGGAGACGGAGCCTGTGATGCAGGAGGAGATCTTCGGGCCCATCTGCC
ATCGTGAACGTGCAGAGCGTGGACGAGGCCATCAAGTTCATCAACCGGCAGGAGAAGCCC
CTGGCCCTGTACGCCTTCTCCAACAGCAGCCAGGTTGTGAACAGATGCTGGAGCGGACC
AGCAGCGGCAGCTTTGGAGGCAATGAGGGCTTACCTACATATCTCTGCTGTCCGTGCCA
TTCGGGGGAGTCGGCCACAGTGGGATGGGCCGTACCACGGCAAGTTCACCTTCGACACC
TTCTCCCACCACCGCACCTGCCTGCTCGCCCCCTCCGGCCTGGAGAAATTAAGGAGATC
CGTACCCACCCTATAACCGACTGGAACCAGCAGCTGTTACGCTGGGCATGGGCTCCAG
AGCTGCACCCTCCTGTGA

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Clone variation with respect to NM\_000695.3  
155 g=>a;1082 a=>g



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000695 unedited  
 CTTGGGTTTTGTAACCCCACTTCTAGTAGGGCGGCACAAAACCTTCGGCACGAGGCACGG  
 GAGTTGGTTTTGGGAGCTGCCAGGCTCCTGGGAGGATCGCAGTCAGCAGAGCAGGGCTGAG  
 GCCTGGGGTAGGAGCAGAGCCTGCGCATCTGGAGGCAGCATGTCCAAGAAAGGGAGTGG  
 AGGTGCAGCGAAGGACCCAGGGGAGAGCCACGCTGTTGTTGGACCCCTTCGAGGACAC  
 GCTGCGGGCGCTGCGTGAGGCCCTCAACTGAGGGCGCACGCGGCCGCGGAGTCCGGGG  
 TGCGCAGCTCCAGGGCCTGGGCCACTTCCCTTCAAGAAAACAAGCAGCTTTCGCGCAGCT  
 GCTGGCCAGGACTGCATAAGCCAGCTTTCGAGGCAGACATATCTGAGCTCATCCTTTG  
 CCAGAACGAGGTTGACTACGCTCTCAAGAACCTTCAGGCCTGGATGAAGGATGAACCACG  
 GTCCACGAACCTGTTTATGAAGCTGGACTCGGTCTTCTGGAAGGAACCCCTTGGCCT  
 GGTCTCATCATCGACCCTGGAACCTGAACTGAACTGAACTGAACTGAACTGAACTGAACT  
 CGCCCTCGCCGCATGGAATTGCGTGGTGTGAAGCCGTGAGATATCAGCCAGGGCACAGA  
 GAATGCTCTGGCTGATGTGCTGCCCCAGTACCTGGACCAGAGCTGCTTTGCCGTGGTGT  
 GGGCGGACCCNAGAGACAGGGCAGCTGCTAGAGCACAAGTAGGACTACATCTTNTCTCAC  
 AGGGAGCCCTCGTGTGGCAAGATTGTCATGACTGCTGCCACAAGCACCTGACGCCTGTC  
 ACCCTTGAGCTGGGGGGCAAGACCCCTGCTACGTGGACGATCACTGCGACNCCAGAC  
 GTGGGCCATCGCGTGGGCTGGTNTCTGCTAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000695 unedited  
 GGCACGCTATCTAGAGTCGAGTT  
 TTAGTTTTTCCAAAACAAATGAATTTATTTGGGAGGAGCAAAGGATTCCTATCTGGGCTA  
 TGAGTGTCTGGAAGGATCCAGGCATACACAGAGGGCCACAGCCAAGGGGAAGCTTTTAA  
 AGGACAAAAGTCCATGTAAGCAGCTTTTAAACAAGGGTTGTAATTTTTTCTGATCCCAA  
 GAGTTGGCGATGTTTTCTGGGGAAACGCGCGGGTAGGTAAACATCTGCAGCTCATTT  
 GGAATACTACAGTCTTGAGGACGTGCTTCCATACCCCTGTGTCTGGTCTACATGCAGG  
 CGTGTCTTGGGATAAATCCTGTTACGGGCATGTGTGTGAGGGCTTCTATGTGGCCCC  
 CGACTCCATTTTATTAAGTTTGGCATAAGTACTCCATTTTGGTTCCAGCAACTTTTAC  
 ATAAGGAAACTGAGGCTCAAAGAAGTCAAGGGACTTGCCCCAGGTCCCCTAACACTGT  
 GCAGTGGAGTGATGCAAAACCCAGTTTTCCCAATGGATGGACCTGCTGTGGGTGAATGCA  
 AGGTGCGGTGTGAACCAAGGGGTGGTGCACAAACCATTGTGGGATGTGAGAAGATCCCT  
 GGGGGAAGCAATGCTTGTGATTTGGATGGGGCAAAGTGGAAATCCCCTTGGCCTAAAGG  
 GAAACCAAGCCCGAAGGCTCCACCTCTCAACCGTTAAGGCTTGAGCCCTAAAAAGGCG  
 GGCCCTGGTTTTTCAAGGGGACCTGCCCTGGAATGGGCTGGCCAACCTGACCAAAG  
 AGCAAGGGCTAATTTGGGAGGGGGGGGAATAAAACCTGGTTTTTTTGGCGCCTTTGC  
 CCTTTTAAACGCGTCCCAAAAAACAAACTTCTTTACACCTGCGCGGATGATATTGTA  
 AT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000695

**Insert Size:**

2620 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_000695.3, NP_000686.2</u>
<b>RefSeq Size:</b>	2660 bp
<b>RefSeq ORF:</b>	1158 bp
<b>Locus ID:</b>	222
<b>Cytogenetics:</b>	11q13.2
<b>Domains:</b>	aldedh
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism
<b>Gene Summary:</b>	<p>This gene encodes a member of the aldehyde dehydrogenase family, a group of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The gene of this particular family member is over 10 kb in length. Altered methylation patterns at this locus have been observed in spermatozoa derived from patients exhibiting reduced fecundity. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>