

## Product datasheet for **SC104238**

### ALDH3B1 (BC019911) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH3B1 (BC019911) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDH3B1
Synonyms:	ALDH4; ALDH7
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for BC019911, the custom clone sequence may differ by one or more nucleotides

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GTCTGCAAGCCCCTGTGGGTGCAGGCAGGTCAGGGGTGCCAGACCCTGGGGCGGCTGGGTGGTCCCAT
GAAGGAGGGGCAGCCCTGGCCACCCAGTTCATGCCACCCCATCTGGCAGGATGGACCCCCTGGGGACAC
GCTGCGGCGACTGCGGGAGGCCCTCCACGCGGGGCGCACGCGGCCAGCTGAGTTCGGGCTGCGCAGCTC
CAAGGCCTGGGCCGCTTCTGCAAGAAAACAAGCAGCTGCTGCAGCAGCACTGGCCAGGACCTGCACA
AGGTGGGCTGGGGTTGGGGTATGAGAGGGTGCAGTGGGGCAGGGGGGCATGGAGGGCAGCTGGGACAGC
AGGGGATGAAGACACCTGCGCCCTCCATGAAGCGGGGCTAAAAGCAGCTCCTCCCCTAGGCCAGAGCCAC
CCTTGACATTCACAGTCACTTATTTCTGTATTCATGCAGCAACTATTTGCTGAGCACCTACTATGTG
CCAGGTAAGTCTAGGCTCTGGGGATATAGCAGAGAATAAAACACAGTCCCATGCCTACGAAGATGAC
CTTCTATCGGAGACAATAAAACAGCAAATAAATAATTGCACAGCAAGGCCGGCATGGTGGCTCACACCT
GTAGTCCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCGCTTGAGGCCAGGAGTTCAAGACCATCCTGGC
CAACATGGCGAAACCCCGTCTCTACTACAATAACAAAAATTAGCTGGATGTGGTGGTGGGCACCTGTAAT
CCCAGTACTCAGGAGGCTGAGGCATGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAAGCAAG
GTCACACCACTGCACTCCAGCTTGGCAACACAGTGAAGTCCATCTCAAAAATAATAATAAAGATAATA
ATTACACAGCAAAAAAAAAAAAAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC019911 unedited  
 GGGTCATAATTTGTAAACGACTCACTATAGGCGCCGCGAATTCGCACGAGGGCAGCTTG  
 GCAGAGCCTCAGGATGGACCCCCTTGGGGACACGCTGCGGCGACTGCGGGAGGCCCTTCCA  
 CGCGGGGCGCACGCGCCAGCTGAGTTCGGGGCTGCGCAGCTCCAAGGCCTGGGCCGCTT  
 CCTGCAAGAAAACAAGCAGCTTCTGCACGACGCACTGGCCAGGACCTGCACAAGTCAGC  
 CTTGAGTCGGAGGTGTCTGAGGTTGCCATCAGCCAGGGCGAGGTCACCTGGCCCTCAG  
 GAACCTCCGGGCCTGGATGAAGGACGAGCGTGTGCCAAGAACCCTGGCCACGCAGCTGGA  
 CTCCGCCTTCATCCGGAAGGAGCCCTTTGGCCTGGTCTCATCATTGCGCCCTGGAACCTA  
 TCCGCTGAACCTGACGCTGGTGCCTCGTGGGAGCCCTCGCTGCAGGGAACCTGTGTGGT  
 GCTGAAGCCATCGGAGATTAGCAAGAAGCTCGAGAAGATCCTGGCCGAGGTGCTGCCCA  
 ATACGTGGACCAGAGCTGCTTTGCTGTGGTGTGGGCGGGCCCCAGGAGACGGNGCAGCT  
 GCTAGAGCACAGGTTGACTACATCTTCTTACAGGGAGCCCTCGTGTGGCAAGATTGT  
 TATGACTGCTGCCCAAGCACCTGACACCTGTCACCCTGGAGCTGGGGGCAAAGACCC  
 TTGCTACGTGGACGAACTGCGACCCCCAGACCGTGGCCAACCGCTGGGCTGGTCCG  
 CTACTTACGCCGNCAGACCTGCGTGGCCCCGACTACGTCCTATGCANNCTGAGATG  
 CANGAGAAGCTGCTGNCTGCCCTGCAAANACCATCACCCGNTTCTTGGCGACGACCCAG  
 AGCTCCCAACCTGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for BC019911 unedited  
 NNCCGGAATAGCTTGNACCGCGCCGAATCTANGATCGATTTTTTTTTTTTTTTTTTAAG  
 GCAGAGCCTCCTTCTGTCAACCAGGCCGGGTTTCAGTGACGCAATCTCAGCTCACGGCAA  
 CCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTTAGCCTCCTGAGTAGCTGGGATTAC  
 AGGCATGCGCCACCACGCCAGGCTAATTTTTGTATTTTAGTAGAGACGGGGTTTCGCCA  
 TGTTAGCCAGGCTGATCTTGAACCTGATTTTCAGGTGATCCGCCTGCCTCGGCCTCCCA  
 AAGTGCTGGGATTACAGGTGTGAGCCGCTCACCCAGCCAGGAGTATCAATGGTTAATT  
 CTCTCCACTGAACAAATGAAAAACTGAGACTCAGAGAGGGCAGGAATGGCCTTGGATGC  
 AGTGATTCCATGGTGTGGCCTGAGTCAGATGCCAGGGCCCTCGGACGCCCGCTCCACAG  
 GAGAGGGGTGACTCAGAGGTGCCGTGTCTGTCTCTTCTCCTGAATATGGGTGGTTGGTG  
 CGGGGGCAGGGGGTGAGTCACTGCACTGTTTCCCATGCCTCCCACCTCGGCTCTCATGGT  
 TGGGAGCGGTGATGGAAGAAGCTGAGGCAGGGAGAGGGAAAACCCAGGAGGGAGGAGGC  
 AAGCGTGCTTTGAGGGGGTGCCTGAAGCCCTTGAATCCTTTTCTCCTCCGAACCCG  
 GGAAGCCAAGACCCGTTTCCACAGACCGCAGGAGAAAAGCTGAAATGGAGGGTCAAAG  
 CCCGAGCCAGGGGGAAGGCGCCAAAACAATGTCCACCATACAGCCCTTGAACAATTG  
 GCCACAACAACACCTAAAACAGGACAGCAAATTGGAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

BC019911

**Insert Size:**

2750 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>BC019911.1</u>
<b>RefSeq Size:</b>	935 bp
<b>RefSeq ORF:</b>	935 bp
<b>Locus ID:</b>	221
<b>Cytogenetics:</b>	11q13.2
<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>	This gene encodes a member of the aldehyde dehydrogenase protein family. Aldehyde dehydrogenases are a family of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The encoded protein is able to oxidize long-chain fatty aldehydes in vitro, and may play a role in protection from oxidative stress. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]