

## Product datasheet for **SC335545**

### ALDH3B1 (NM\_001290058) Human Untagged Clone

#### Product data:

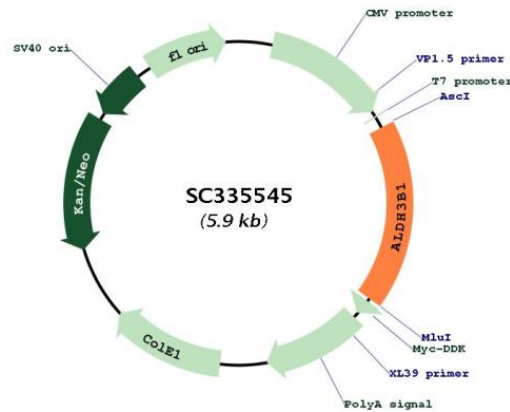
**Product Type:** Expression Plasmids  
**Product Name:** ALDH3B1 (NM\_001290058) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ALDH3B1  
**Synonyms:** ALDH4; ALDH7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC335545 representing NM\_001290058.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTA
CCGAGGAGATCTGCCCGCGCATCGCCGGCGCGCC
ATGGACCCCTTGGGGACACGCTGCGGCGACTGCGGGAGGCCCTCCACGCGGGGCGCACGCGCCAGCT
GAGTTCGGGGCTGCGCAGCTCCAAGGCCTGGGCGCCTTCTGCAAGAAAACAAGCAGCTTCTGCACGAC
GCACTGGCCAGGACCTGCACAAGTCAGCCTTCGAGTCGGAGGTGTCTGAGGTTGCCATCAGCCAGGGC
GAGGTACCCTGGCCCTCAGGAACCTCCGGCCTGGATGAAGGACGAGCGTGTGCCAAGAACCTGGCC
ACGCGACTGGACTCCGCCTTCATCCGGAAGGAGCCCTTTGGCCTGGTCTCATCATTGCGCCCTGGAAC
TATCCGCTGAACCTGACGCTGGTGGCCCTCGTGGGAGCCCTCGTGCAGGAACTGTGTGGTGTGAAG
CCATCGGAGATTAGCAAGAACGTCGAGAAGATCCTGGCCGAGGTGCTGCCCAATACGTGGACCAGAGC
TCCCCAAACCTGGGCCGATCATCAACCAGAAACAGTTCCAGCGGCTGCGGGCATTGCTGGGCTGCGGC
CGTGTGGCCATTGGGGCCAGAGCGATGAGAGCGATCGCTACATCGCCCCACGGTGTGGTGGATGTG
CAGGAGATGGAGCCTGTGATGCAGGAGGAGATCTCGGGCCATCCTGCCCATCGTGAACGTGCAGAGC
TTGGACGAGGCCATCGAGTTCATCAACCGCGGGAGAAGCCCTGGCCCTGTACGCTTCTCAACAGC
AGCCAGGTGGTCAAGCGGGTGTGACCCAGACCAGCAGCGGGGGCTTCTGTGGAAACGACGGCTTCATG
CACATGACCCTGGCCAGCCTGCCTTTGGAGGAGTGGGTGCCAGTGGGATGGCCCGGTACCATGGCAAG
TTCTCCTTCGACACCTTCTCCACCATCGCGCCTGCCTCCTGCGCAGCCGGGGATGGAGAAGCTCAAC
GCCCTCCGCTACCGCCGCAATCGCCGCGCCCTGAGGATGCTGCTGGTGGCCATGGAGCCCAAGGC
TGCAGCTGCACACTGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** AscI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001290058

**Insert Size:** 1056 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).

**Reconstitution Method:**

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:** [NM\\_001290058.1](#)

**RefSeq Size:** 2505 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 221

**UniProt ID:** [P43353](#)

**Cytogenetics:** 11q13.2

**Protein Families:** 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>MW:</b>	38.9 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) lacks an exon and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (c) is shorter, compared to isoform a.</p>