

Product datasheet for **MC203095**

Aldh3b1 (NM_026316) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh3b1 (NM_026316) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aldh3b1
Synonyms:	1700001N19Rik; ALDH4; ALDH7
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC046597
 TGCAGCTTGGCGAAGCCGCAGGATGGACTCGTTTTGAAGACAAGCTTCAGCAGCTGCGGGAGGCCCTTCAAG
 GAGGGGCGGACGAGGTCAGCTGAGTTCCGAGCGGCACAGCTGCAAGGCCCTGAGCCACTTCTCCGAGACA
 ACAAACAACAGCTGCAGGAGGCGTTGGCCCAAGACCTGCACAAGTCAGCCTTCGAGGCCGAGGTGTCTGA
 GATTGCCATCAGTCAGGCCGAGGTGGACCTGGCCCTCAGGAACCTGCGGTCTTGGATGAAGGATGAGAAA
 GTGTCCAAGAATCTGGCTACACAGCTGGACTCAGCCTTCATCCGGAAGGAGCCCTTCGGTCTGGTGCTTA
 TCATCGTGGCCCTGGAATTATCCCATTAACCTGACACTCGTGCCGCTGGTGGGGCCATAGCTGCAGGGAA
 TTGTGTGGTGCTCAAGCCCTCAGAGATCAGCAAGGCCACTGAAAAGATACTGGCTGAGGTCTGCCCCGC
 TATCTGGACCAGAGCTGCTTTACTGTGGTACTGGTGGGCGTCAGGAGACCGGGCAGCTGCTGGAACACA
 AGTTCCACTACATCTTCTCACAGGGAATGCTTATGTAGGCAAGATCGTCATGGCTGCTGCTGCCAAACA
 CCTGACACCCATCACCTGGAGCTGGGGGTAAAGAACCCTGCTATGTGGATGACAACTGCGACCCCCAG
 ATAGTGGCCAACCGTGTGGCCTGGTTCGCTACTTTAATGCCGGCCAGACCTGTGTGGCCCCGATTATA
 TCCTGTGTAGCCAGGAGATGCAGGAGCGGTTGGTGCCTGCCCTACAGAATGCCATCACACGTTTCTATGG
 AGACAACCCACAGACCTCCCCAACCTGGGCAGAAATCATCAACCAGAAGCATTTCAGGCGACTCCAGGGA
 TTGCTGGGCTGTGGCCGTGTGGCCATCGGTGGCCAGAGTGATGAGGGAGAGCGCTACATTGCCCCACAG
 TGTTAGTGGACGTGCAGGAGACAGAGCCTGTGATGCAGGAGGAGATCTTTGGGCCATCCTGCCCTGGT
 GACTGTGAGAAGCCTGGATGAAGCCATCGAGTTTCATGAACCGGCGGGGAGAAGCCACTGGCGCTGTATGCC
 TTCTCAAAGAGAAGCCAGGTTATCAAACAGGTGTTGGCCCGACCAGCAGCGGGGATTCTGTGGGAATG
 ATGGCTTCATGCACATGACCCTGTCCAGCCTTCTTTTGGAGGAGTGGGAACCAGCGGGATGGGCAGGTA
 CCACGGCAAGTTCTCCTTTGACACCTTCTCCAACCAGCGTGCCTGTCTGCTGCGCAGCCCGGGAATGGAG
 AAAATCAATGACTTGGCTACCCACCCTACTCCAGTCGCAACCTCAGGGTGTGTGGTGGCCATGGAGG
 AGAGGTGCTGCAGCTGCACCCTGCTGTAAGCAGGGTTTTGGGGTACAGGAGCCTGCCTGGGGCACAGCT
 TCAGAGAAGTGGCTGCCAGGGCAAGGCCACAGAGCAGTCTGCTCAGCCCTTCTTGGTGGAGCCCTCG
 CCTCCTGGGGCTCCCCTTTTGGACCTTTGAATAAGATAGGCTGAGGGTAGGAAGGCAGGAAGGGATGCA
 GTGACCATAGAATCTTCGAGAAAACAGAGCACTTCTGAACTACCCACCCTCTCGTGGATAGTGTGCAAG
 GGAGCAGTGATAATCGGCACAGGTCACTACTGTGACCAGGCCTGTCTGGGTCTTCTCACTCTCAGTTTT
 CTATCTGCACAATGGAATAAAACAGCCTTAACAAAACAGCCTATCGTCGTGGAAGTATTAAGTATAGGAG
 GGCTGACTCCAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_026316

Insert Size: 1407 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: [BC046597](#), [AAH46597](#)

RefSeq Size: 1915 bp

RefSeq ORF: 1407 bp

Locus ID: 67689

UniProt ID: [Q80VQ0](#)

Cytogenetics: 19 A

Gene Summary: Oxidizes medium and long chain saturated and unsaturated aldehydes (PubMed:25286108). Metabolizes also benzaldehyde (By similarity). Low activity towards acetaldehyde and 3,4-dihydroxyphenylacetaldehyde (By similarity). May not metabolize short chain aldehydes. Can use both NADP(+) and NAD(+) as electron acceptor (By similarity). May have a protective role against the cytotoxicity induced by lipid peroxidation (By similarity).[UniProtKB/Swiss-Prot Function]