

Product datasheet for **MC206454**

Aldh3a2 (BC003797) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh3a2 (BC003797) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aldh3a2
Synonyms:	Ahd-3; Ahd-3r; Ahd3; Ahd3-r; A1194803; Aldh4; Aldh4-r; FALDH
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003797
 AGCTGTGGCATCATCCATAGCAGCTCCTTACTGGTACTGTGCTCCCTCACCTGCCTCGCTCCGCGTTCTC
 CTCAGGCCCGGCCATGGAGCGCCAGGTCCTACGGCTTCGCCAGGCGTTCGGTCCGGCCGATCTCGGCCG
 CTGCGCTTCCGATTGCAGCAGCTTGAGGCCCTGCGGAGGATGGTGAAGAGCGCGAGAAGGAAATCTTAG
 CAGCCATCGCGGCAGACCTGAGCAAAAGTGAACCAATGCATACAGTCATGAAGTCATTACCATCCTTGG
 AGAGATTGATTTTATGTTGGGAATCTTCTGAATTGGCTTCTGCGAGACCGGCTAAGAAGAACCTGCTA
 ACCATGATGGATGAGGCCTACGTTACGCCGAGCCTCTGGGAGTGTACTGATTATTGGAGCTTGGAAAT
 ACCCTTTTCGTTTACCATGCAACCGCTGGTGGGAGCCATTGCTGCAGGAAATGCTGCCATTGTTAAGCC
 CTCAGAACTCAGTAAAAACCGCCAAGATCTTGGCTGAACTCCTCCCTCAGTACTTAGACCAGGACCTG
 TATGCGATTGTTAATGGCGGTATCCCGAAACCACGGAGCTTCTGAAGCAGCGGTTTGACCACATTCTCT
 ATACAGGGAACACTGCAGTTGAAAAATTTGTCATGGAAGCTGCTGCCAAGCATCTGACCCCTGTGACCC
 GGAACCTCGGCGGAAAAGCCCTTGTACATTGACAGAGACTGTGATCTGGACGTGGCTTGCAGACGCATA
 GCCTGGGAAAAGTACATGAATTGGTCAAACCTGCATTGCTCCTGACTATATCCTGTGCGAAGCCTCCC
 TCCAGAATCAAATCGTACAGAAGATTAAGGAAACGGTGAAGGACTTTTATGGGAAAACATAAAGGCTTC
 TCCTGACTATGAAAGGATCATCAATCTTGTCACTTTAAGAGTTACAAAGTCTGCTTAAAGGCCAGAAA
 ATAGCTTTCGGTGGAGAGATGGATGAGGCCACACGCTACTTAGCCCAACCATACTTACAGATGTTGATC
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 CGAAGCCATAAATTTATAAATGACCGTAAAAGCCCCTGGCTCTCTACGTATTTTCTCGTAAACAATAAG
 CTCATCAAACGGGTGATAGATGAGACCTCCAGTGGTGGAGTACCAGGCAATGATGTCATCATGCACCTCA
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 TACCCGCCAACAGCGAGTCCAAGGTCAAGTCAAGTGGCCAAGTCTTCTGCTGAAGCAGTTCAACAAGGAA
 GGCTGGGATGCTGTTGTTGTGCTGCTGTTGCTGTTGAGTGTGATGTCAGGATCAGCTGTAATG
 ACTTCTTGTGCTCTCCTGAAGTATCACTCTACTAAATGGTTAACAACCAATACTTTTAAAAATTGTA
 CCCAAACCAGGAAATTCAGATGTACTGCAATCAAACCTAAGCTGTTGCCACAAACCACTAATGAAACT
 CAGTGTGTTGAGCCAAATCTCCGCAATTGAGAGCAGTGAAGTGTGAGAGGATGTAGACTGGGCTGGGGC
 GAGAACATGTCACACTAGATCCCAGTCCACGATGATGAGTCAAGGAGACTCGATAACTGCTCCTTGCCCA
 TTCATTTTCTCCAGCCATAGCTCTGCCACTCCAGTGTCAAACACCGCCAGGCTTCCAGCTGACCT
 CTGTTATCTTGAAGCTGAGGCTAGGTCCTCCAGCTACTGTTAGGCATTGAGGTAATAAACTGCAGGT
 GGGTATGTCATCTCATCCATTGGCTTGAGACCGGCTTCAGGAGTCCGCTCTCCATTTAAACATCCT
 TTCTTATTCATAGCGCACCCAAAGTCTGTGTTTTGTGACAGTCTGTGGGACTGTCCAGTGCCTT
 TGTGATGACCTAAACTGCACTGAGTCTCTTGCCAAGAAGCAATGCTTTTTTGTGAAGGCCACTCAGAGC
 ATCTTGACGTACAGCTGTTCTGAGCCTGAGGCCAGAAGATTCCCTAACCAGGACTTTGAAGCCAACC
 TAGGCAACATGATGGGACCCCTCCCATTTCTTCAAAAAATCCCCTCAAGATCCTCAAGTTGAATGTTTT
 GTAGATCTTCAAGGATAAGCCTTCTGCTTATTCTCCTAGCACAATGCAAGGAAATTTTACTTTTTAAATC
 TTAGAGAGATTCCTACAGATCTATAAAGCATGGAGCCATTCTGTAGTGAAGGGGGGTTATTATACCCC
 AGGGCTTCAGAACTCACAGGACAGGGATTGCTGGAGAACACTGCGAGCTGTGGAGCACACTAAGGGATG
 GGATGGTCAGAGGCGCTCCCGAGCAAGCGGGCATCATTCTCCCTTAGATCCTAGTGTGGCTAAGCAGGG
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 CTCAGTGCCTTCTGGGGTCTAATTAACCTCGGCTACTCAATGAGAAGTAAACATGCTTATTGAATGTA
 TAGCCGTGTTGCTGAGTAACTGTCCACCGTTGAGGCTATCTGAAGTGTATTGTATGAAGGAAGTATC
 AAGAACAATCATTGGCCGTTATAGCAAAATAGTTGCTTAAAGTAGCAGTTGTCATAGACTAATCATAAAA
 TATTTTGCACAAAATTTCAATGTTGAACCTGCACTTACTGTTGTTATAGTAAATTATAAATCACAGCTTC
 TAGCTAGGCCAAAATACTTACTTACTGATCTTCAAATAAATGTATTTCAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC003797
Insert Size: 1455 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:	<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:	BC003797 , AAH03797
RefSeq Size:	3007 bp
RefSeq ORF:	1455 bp
Locus ID:	11671
Cytogenetics:	11 37.96 cM
Gene Summary:	Catalyzes the oxidation of medium and long-chain aliphatic aldehydes to fatty acids. Active on a variety of saturated and unsaturated aliphatic aldehydes between 6 and 24 carbons in length (PubMed:25286108). Responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid (PubMed:25286108). [UniProtKB/Swiss-Prot Function]