

Product datasheet for **MR224974**

Aldh3b2 (NM_001177438) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh3b2 (NM_001177438) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh3b2
Synonyms:	A1848594; C130048D07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR224974 representing NM_001177438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGTGTCAGAGACAGGCTCGGAGCCCTCTCAGGGGCGAGCCCTCTGAGGCCACACTGCACAGCC
 TCGGGAGGCCTTCAATGCAGGGCGGACTCGGCCCTACTGAGTTTCGGACTGCACAGCTGCGGAGCCTGGG
 TCGCTTCTTGCAGGAAAACAAAGAGCTGCTGCAAGATGCACTGGCTAAGGACGTGGGCAAGTCAGGCTTC
 GAGTCAGACATGAGTGAGATCATCCTGTGCGAGAATGAGGTGGACCTGGCCCTCAAGAACCTGCAGACCT
 GGATGAAGGACGAGCCTGTGTCCACCAACTTGCTCACCAAGCTGAGCTCAGCCTTCATCCGAAAGAGCC
 CTTTGGCCTGGTCTTATCATTGCACCCTGGAATTATCCTGTGAACCTTGATGATACATTTAGTGGGG
 GCCATTGTGCAGGAACTGTGTGGTGTGAAGCCATCAGAAATTAGCAAGAACACAGAGAAGGTGCTGG
 CAGAGCTGCTGCCCCAGTATCTGGACCAGAGCTGCTTTGCTGTGATGTTGGGAGGACCCGAGGAGACCAG
 GCAGCTGCTGGAACACAAATTTGACTATATCTTCTTACAGGAAGTCCTCGGGTAGCAAGATCGTCATG
 ACTGCTGCTGCCAAACACCTGACACCCATCACCTGGAGCTGGGGGTAAAGAACCCTGCTATGTGGATG
 ACAACTGCGACCCCCAGACAGTGGCAACCGTGTGGCCTGGTTCCGCTATTTCAATGCCGCCAGACCTG
 TGTGGCCCCGATTATATCCTGTGTAGCCAGGAGATGCAGGAGCGGTTGGTGCCTGCCCTGCAGAATTCC
 ATCACGCGTTTCTATGGAGATAACCCACAGACCTCCCCAACCTGGGCGAATCATCAACCAGAAGCATT
 TCAAGAGGCTCCAGGGATTGCTGGGCTGTGGCCGTGTGGCCATCGGTGGCCAGAGTGATGAGGGAGAGCG
 CTACATTGCCCCACAGTGTGGTAGACGTGCAGGAGACAGGCCGTGATGCAGGAGGAGATCTTTGGG
 CCCATCTGCCCTGGTACTGTGAGAAGCCTGGATGAAGCCATTGAGTTCATCAACCGCGGGGAGAAGC
 CTCTGGCGCTGTATGCCCTTCCAACAACAACCGGTGGTGAATCAGATGTTGGAACGCACCAGCAGCGG
 TGGCTTTGGAGGCAACGATGGCTTCCTCTACCTGACCCTACCAGCTCTGCCTTTGGGGGGAGTTGGCAAC
 AGCGGGATGGGCAGGTACCATGGCAAGTTCTCCTTTGACACCTTCTCCCACCATCGTGCCTGCCTGCTGC
 GCAGCCCTGGGATGGAAGCTTAATGACCTCCGTTACCCGCTTATGGTCCCTGGAACCAACTGAT
 AAGCTGGGCCATAGGCTCCCGAGCTGCACCCTCTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224974 representing NM_001177438
 Red=Cloning site Green=Tags(s)

MSAAETGSEPSQGAGPSEATLHSLREAFNAGRTRPTEFRTAQLRSLGRFLQENKELLQDALAKDVGKSGF
 ESDMSEIILCENEVDLALKNLQWWMKDEPVSTNLLTKLSSAFIRKEPFLVLI IAPWNYPVNLMI IPLVG
 AIAAGNCVVLKPSEISKNTEKVLAE LLPQYLDQSCFAVMLGGPEETRQLLEHKFDYIFFTGSPRVGKIVM
 TAAAKHLTPITLLELGGKNPCYVDDNCDPQTVANRVAVFRYFNAGQTCVAPDYILCSQEMQERLVPALQNS
 ITRFYGDNPQTSPLNLRINQKHFKRLQGLLGCGRVAIGGQSDEGERYIAPT VLVVDVQETEPVMQEEIFG
 PILPLVTYRSLDEAIEF INRREKPLALYAFSNNQVVNQMLERTSSGGFGGNDGFLYLTLPALPLGGVGN
 SGMGRYHGKFSFDTF SHHRACLLRSPGMEKLNDRYPYPGPWNQQLISWAIGSRSC TLL

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9087_d04.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001177438

ORF Size: 1437 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001177438.1](#), [NP_001170909.1](#)

RefSeq Size: 2161 bp

RefSeq ORF: 1440 bp

Locus ID: 621603

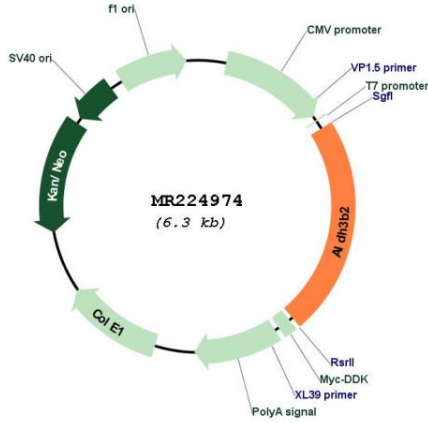
UniProt ID: [E9Q3E1](#)

Cytogenetics: 19 A

MW: 53 kDa

Gene Summary: Oxidizes medium and long chain aldehydes into non-toxic fatty acids.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224974