

Product datasheet for **MR207744**

Aldh3a2 (NM_007437) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh3a2 (NM_007437) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh3a2
Synonyms:	Ahd-3; Ahd-3r; Ahd3; Ahd3-r; A1194803; Aldh4; Aldh4-r; FALDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207744 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCGCCAGGTCCTACGGCTTCGCCAGGCGTTCGGTCCGGCCGATCTCGGCCGCTGCGCTTCCGAT
 TGCAGCAGCTTGAGGCCCTGCGGAGGATGGTGCAAGAGCGCGAGAAGGAAATCTTAGCAGCCATCGCGGC
 AGACCTGAGCAAAAGTGAAGTCAATGCATACAGTCATGAAGTCATTACCATCCTTGGAGAGATTGATTTT
 ATGTTGGGAATCTTCTGAATTGGCTTCTGCGAGACCGGCTAAGAAGAACCTGTAACCATGATGGATG
 AGGCCTACGTTACGCCGAGCCTCTGGGAGTCGTACTGATTATTGGAGCTTGAATTACCTTTCTGTTCT
 TACCATGCAACCGCTGGTGGGAGCCATTGCTGCAGGAAATGCTGCCATTGTTAAGCCCTCAGAACTCAGT
 GAAAACACGGCCAAGATCTTGGCTGAAGTCTCCCTCAGTACTTAGACCAGGACCTGTATGCGATTGTTA
 ATGGCGGTATCCCGAAACCACGGAGCTTCTGAAGCAGCGGTTTGACCACATTCTATACAGGGAACAC
 TGCAGTTGAAAAATTGTCATGGAAGCTGCTGCCAAGCATCTGACCCCTGTGACCCTGGAAGTCCGGCGGG
 AAAAGCCCTTGTACATTGACAGAGACTGTGATCTGGACGTGGCTTGACAGACGCATAGCCTGGGGAAAGT
 ACATGAATTGTGGTCAAACCTGCATTGCTCCTGACTATATCCTGTGCGAAGCCTCCCTCCAGAATCAAAT
 CGTACAGAAGATTAAGGAAACGGTGAAGGACTTTTATGGGGAAAACATAAAGGCTTCTCCTGACTATGAA
 AGGATCATCAATCTTCGCACTTAAAGAGGTTACAAAGTCTGCTTAAAGGCCAGAAAATAGCTTTCCGGTG
 GAGAGATGGATGAGGCCACACGCTACTTAGCCCAACCATACTTACAGATGTTGATCCTAACTCCAAGGT
 GATGCAAGAAGAAATTTTGGACCAATCTTCCAATAGTGTCTGTGAAAAATGTAGACGAAGCCATAAAT
 TTCATAAATGACCGTGAAAAGCCCTGGCTCTCTACGTATTTCTCGTAACAATAAGCTCATCAAACGGG
 TGATAGATGAGACCTCCAGTGGTGGAGTCACCGCAATGATGTCATGCACTTCACTGTTAATTTCTCT
 GCCCTTTGGAGGTGGGTGCCAGTGGAAATGGGGCGTATCATGGAAAATACAGTTTTGATACCTTTTCT
 CATCAGCGCCCTGCTTGTAAAAGGGTTAAAGGGGAAAGCGTCAACAAGCTCAGGTACCCGCCAAACA
 GCGAGTCCAAGGTGAGCTGGGCCAAGTTCTTCTGCTGAAGCAGTTCAACAAGGAAGGCTGGGGATGCT
 GTTGTGTGTGCCTGGTGTGCTGTTGCAGCTGTGATTGTCAAGGATCAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207744 protein sequence
 Red=Cloning site Green=Tags(s)

MERQVLRRLRQAFRSGRSRPLRFRLQQLLEALRRMVQEREKEILAAIAADLSKSELNAYSHEVITILGEIDF
 MLGNLPELASARPAKKNLLTMMDEAYVQPEPLGVVLIIGAWNYPFVLTMQPLVGAIAAGNAAIVKPSSELS
 ENTAKILAELLQYLDQDLIYIVNGGIPETTELLKQRFDHILYTGNTAVGKIVMEAAAKHLTPVTLELGG
 KSPCYIDRDCDLDVACRRIAWGKYMNCGQTCIAPDYILCEASLQNIQVQIKETVKDFYGENIKASPDYE
 RIINLRHFRLQSLKQKIAFGGEMDEATRYLAPTILTDVDPNSKVMQEEIFGPILPIVSVKNVDEAIN
 FINDREKPLALYVFSRNNKLIKRVIDETSSGGVTGNDVIMHFTVNSLPFGGVTGASGMGAYHGKYSFDTFS
 HQRPCLLKGLKGESVNLRYPPNSESKVSWAKFFLLKQFNKGRMGMLLFVCLVAVAAIVKDKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

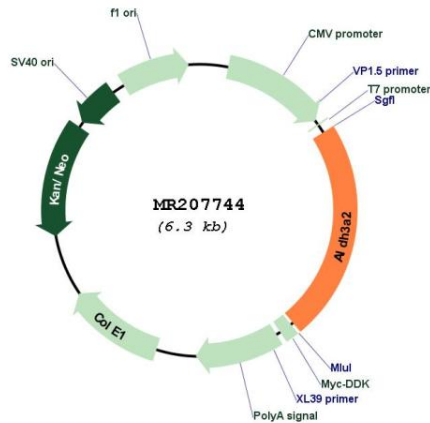
Sgfl-MluI

Cytogenetics: 11 37.96 cM

MW: 54 kDa

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]

Product images:



Circular map for MR207744