

Product datasheet for **MC204013**

Aldh6a1 (NM_134042) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh6a1 (NM_134042) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aldh6a1
Synonyms:	1110038I05Rik; Mmsd; Mmsdh
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC033440
 CCGACGCGTGGGCGAAGCGTGGGTCCGGTGGAGCCATGGCGGGCAGTGGCGGCAGCGGCAGCAATGCGG
 TCCCGGATCCTGCAGGTTTCTTCTAAGGTAATGCCACATGGTATCCAGCATCCTCCTTCTTCTCAT
 CAGTGCCAACTGTAAAGCTTTCATTGATGGAAAAATTTGTTGAATCAAAAAGTGATAATGGATTGACAT
 CCACAACCCAGCCACCAATGAAGTTGTTGGTAGGGTTCCTCAGTCCACCAAGCTGAGATGGACGCAGCC
 GTTGAGTCTGCAAACGTGCTTCCCTGCGTGGGCAGACACATCTATTTAAAGCCGGCAGCAGGTCCTGC
 TTCCGTTATCAGCAGCTCATTAAGAAAACTGAAAGAAATGCCAGGTTAATCACACTGGAAACAAGGGAA
 GACTCTTGCTGATGCTGAAGGAGATGTATCCGATGCCTTCAGGTGGTTGAGCATGCCTGTAGTGTGACA
 TCCTCATGCTGGGAGAGACCATGCCATCTATACCAAAGACATGGACCTTTATTCTACCGTCTGCCTC
 TGGGGGTGTGTGCAGGCATTGCACCATTTAATTTTCTGCCATGATCCCCCTTTGGATGTTTCCCATGGC
 TATGGTTTGTGGAATACTTTCTAATGAAACCATCAGAGCGAGTACCTGGAGCAACTATGCTCCTTGCT
 AAGTTGCTTCAGGATTCTGGGGCCCTGACGGAACACTGAACATTATCCATGGACAACATGATGCTGTAA
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 AAGTATGACTTGTACAAAGAGGAGATATTTGGTCCAGTCTTGTGGTTTTGGAGACAGAAAACACTGGAT
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 CCGCCCGAAAATATGCTCACATGGTGGATGTGGGACAGGTGGGTGTGAATGTCCCATTCAGTGCCTTT
 CCGCATGTTTTCTTACCAGCTCTCGCTTCTTCCAGGGGAGACACCAATTTCTATGGCAAACAGGGC
 ATCCAGTTTTACACGCAAGTTAAAGACTATCACGTCTCAGTGGAAGAAGAAGATGCTACGCTTTCCTCCC
 CTGCTGTAGTCATGCCTACCATGGGGCGTTAGAAGCAAGTCTTCAAGACTCAGTCCAGCCTGAGTAATT
 TCCCATCACTCTTGGCGCCTTCTGTCATCTTTGCTCAAAACAGATCTATGAGAATGGAATATATTG
 CAACTAAATCTTCTCAGAACTCTCAATCCCTTCAAAGTTGTAGGGAGTGCAGGATAACACTAATACCA
 GGCCTTCAATGTTCTCCATATGTCTCCACAGTTTTTAAGGTAATTGTTGTTAAGTGTGAAGTGTGCT
 AGAATTCGAGCTTAGAAGTGTCTTAACTATTCTTTTGAACGTGAGAGGAATGTCAATGTAGGGACA
 GATCTTCAATCACTGAAACAGGTATCCTCTAGTTGAGCCTCAAATGCAGCCCTCCACGGTCCCACA
 CTAACATGTAACCTAGTTTTACATATCTTAGCATTGTGACGACTGCTCTGCTCAATGCCACTTTCTTC
 TGGGTGATTCATGGCCACTGTTAATTCTATCATTGTCCATGTTCTTGTGCTTAAAAACTTCTCAAGG
 ATACCTCAGGATGAAGTGATAAGTTAGCTTTTAGTTACATGTGCCATTCTTCATGGTTTGGCTCGACAAC
 CATTAAATCAATACTCCAGCCATTAATGCAGATACAAATAGATCCTTAGATAAAATCTTCCACAAATGA
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 CACCTTATCACTTAACCAGTTATTCAGCTGCCTTTAAGCTTGCTTCTGATAATCTAAACCTTCAGT
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 CTGTATAGCCATGTGTGGACAGTGTGCTCCAGTCCATTGTGGGTTTGTGAGTTAAAAATAAAGGTGGT
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 GAGCTTCAGTCACTTTAACAACAACAACCTGATTTTTCTTTTGTTCATCCTAAAGTAAAGTAGACA
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 TCCTTAGATATAAAGGAAGTTACTTTAAAAAATTACAATAATCAAATTTGTTATTTATAATCATAA
 TCAACAGATTTGACCAGTACTTGTGCTCAAAAGGGTTTCTGTTTCTTAGATGAAATTTATTTGGTT
 GCATTTGGGTTAATATCATTAAATGAGAAAACAGCATTTTCCCTTTTGTCTTATATGCTTTGCTGA
 ATTTTGTGAGCTTCTATACTGATTATGAATAACAAAGTACAAATAAAAAGCCTTAGGAAAAATACAGTA
 CTGAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN:	NM_134042
Insert Size:	1608 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:	BC033440 , AAH33440
RefSeq Size:	3377 bp
RefSeq ORF:	1608 bp
Locus ID:	104776
UniProt ID:	Q9EQ20
Cytogenetics:	12 39.21 cM
Gene Summary:	<p>This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded enzyme is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine and pyrimidine catabolic pathways. This enzyme catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Mutations in the human gene result in Methylmalonate Semialdehyde Dehydrogenase Deficiency, characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids. Alternate splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>