

Product datasheet for **SC206441**

ALDH6A1 (NM_005589) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ALDH6A1 (NM_005589) Human 3' UTR Clone
Symbol:	ALDH6A1
Synonyms:	MMSADHA; MMSDH
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_005589
Insert Size:	2000 bp



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Insert Sequence: >SC206441 3'UTR clone of NM_005589
 The sequence shown below is from the reference sequence of NM_005589. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCTGTTGTCATGCCTACCATGGGCCGTTAGAAACAAGTTTGTAAAGACTGACTCCATCCTGAGTAATC
TCCTTTATTTTTGACCAGCTTCATTTGTCAGCTTTGCTCAGATCAGATCGATGGGATTGGAATACATT
GTAACATAAACTTCTCAGGACTATTAACCCCGCAAAGTTTCTATAGGGAAGTGCCTAGTGTAACAA
TGAAACCAGATTCTCACTTGCTCTTACTTCTATTTTGTAGGTAAGTGTGAACTATGAAATGCTT
ATCTGAAAGTAGTGCTTAAACCTGATTTCTAAAAATTATCCATTTTCTGATGATTTGAAGGGGAGAAA
AGCCAGTGTATGTAAGAAAATGTTCCAGCCAGGCGGGTGGCTCACGCCTGTAATCCATCATTTTGG
GAGGCCACAGTGGCAGATTGCTTGAGCCAGGAGTTGAAGAACGTGGCGAAACCCCGTATCTATTATT
TAAAAAATTGAAAAAGTAAAAAAGAAAAAGGGAAAAAATTTTTTAAAGAAGATGTTCCAATAATTG
CAAGAAGAACTCTTAGATGGGGAACAGGACAGAAATAACTCACCGCTTTTGGTTGATCCTCAAACATA
GCGCTACCTAAATGCCACTGGGAGAGACCTCTGCAAAGTTTTCTTTAGCCCTCTTTATCCCACAAT
ACACAAGATATAATCCATTTTTATATATCCCAAAGTTGTGGCAACAGCTTCTTTCTTTCTGCTCAATG
CCACTTTGTTTCCTAGTAATTCATGACCACTATTAATTCTATCATTGTCAGTCTGCTCTGCTTAAGATCA
CTTCTCAAGGATACCTCAGTAAGCAATGGATAAATCAACTTTTTGTTATATGTGCCAAGTACTAAGTTT
CAGGGTCTCTTCAGCAATCATTAAATAACTTCAGCCATTAATTCAGATGCAAATAATTTTCTTTTT
TCTTTTTTTGAGATGGAGTTTCACTCTTGTGGCCAGGCTGGAGTGAATGGCGTGATCTCAGCTCAC
CGCAACCTCCGCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCCCCTAGTAGTGGGATTACAGGC
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GCCACCACACCCAGCAGATGCAAATAATTTCTTAGAAAATTATTTCAAAGTTATTTAGGCCCAGA
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TTGCCAAATTTATATATTTCTTTCTCTGCTGTATTCTAATTAGTGATTTGTTAATGAAGAACTC
TTCATGTAGAGCAATTAAGTGGCCTAAGAAATTTGAAGCTTTCCATGACATAAAGTGGTTAAAAAAA
AATGCTTTGACAGTCTTCTCTGCCATTAGTTCAACTGCCTTTACGCTTTTTTTTTTTTTTTTTTTTT
GAGATGGAGTTTCACTCTTGTGGCCAGGCTAGAGTGCAATGGCGTGATCTTGGCTCACTGCAACCTCT
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CCCAGCTCAGGTGATCTGCCTGCCTGGCCTCCCAAAGTCTGGGATTACAGGTGTGAGCCACCACCC
CCAGCCGCTCTATGCTTTTTGTTTCTTTGATATATCTAAACTTAAGGTCAGAACAGAAATTCATGTGC
TGAACAGAATGGATTCTTTTTGCAGTACCAATCCAATTGAATCCTTTTTTATTTTCTCGCTCCTTA
ACGCGTAAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_005589.4](#)

Summary:

This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded protein is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine and pyrimidine catabolic pathways. This protein catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semialdehyde dehydrogenase deficiency is 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. [provided by RefSeq, Jun 2013]

Locus ID:

4329

MW:

76.5