

Product datasheet for **SC206080**

ALDH2 (NM_000690) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ALDH2 (NM_000690) Human 3' UTR Clone
Symbol:	ALDH2
Synonyms:	ALDH-E2; ALDHI; ALDM
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000690
Insert Size:	2000 bp



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Insert Sequence: >SC206080 3'UTR clone of NM_000690
 The sequence shown below is from the reference sequence of NM_000690. 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
ACAGTCAAAGTGCCTCAGAAGAAGCTCATAGAATCATGCAAGCTTCTCCCTCAGCCATTGATGAAAG
TTCAGCAAAGATCAGCAACAAAACCAAGAAAAATGATCCTTGCGTGCTGAATATCTGAAAAGAGAAATTT
TTCCTACAAAATCTCTGGGTCAAGAAAGTTCTAGAATTTGAATTGATAAACATGGTGGGTTGGCTGAG
GGTAAGAGTATATGAGGAACCTTTAAACGACAACAATACTGCTAGCTTTCAGGATGATTTTTAAAAAA
TAGATTCAAATGTGTTATCTCTCTCTGAAACGCTTCTATAACTCGAGTTTATAGGGGAAGAAAAAGC
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TTAAAACTAGCTGCTCTTAACTACTGGGTAACCTTTGTCCATCTCAATAACCAAAGGAAGGTGGGC
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TGCTTCAGCTTCCCTGGGCTAATGTTTGTATTTTTTTGTTGGAGATGGGACTTTGTTATGTTGCCAGGCTG
TTTTCAAACCTCCTGGACTCAAGTATCCTCCCGCCTTAGCCTCCTAAGGTGCTGGGATTACAGGTGTGA
GCCACTGTGCCAATTCAGTTCTCAGTAAAAACTTGATCAGGCCAAATGAAAGTGACATGGGCCAATTT
CATAATAGATTGATTTGGAAACCAGATGCAATTTACTTACTTTAAGTGAGATCTGTATCTTCAGTAAC
CAGACCTCTTGAGTCTCCACCCAGAACACTATCTTCTCTAGTCAAGATACCTGGCAAAGGCCGGGCA
CAGTGGCTCACGCTATAATTCCAGCACTTTGGGAGGCCAAGGTGGTGGGTACCTGAGGTTGGGAGT
TCGAGACCAGCCTGACCAACAGGAGAAAACCCATCTCTACTGAAAATACAAAAAATAAAAAAATAAACT
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CCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATTGCTCCATTGACTCCAGCCTGGGCAACAAGAGAGAA
ACTCCGTCTCAAAATATAAATAAATAAGAAAAAGAAATGGAAGCTGGGTTCAAGAGGGCAATCAGC
AGTCTCTACCATCATGTGAAACCACTCTGTGATTTGAGTCTTGACAATGTATTTCTTTTTTTTTTTT
CTTCTTTTTTTTTTGGAGACTGAGTCTCGGTCTGTGCGCCAGGCTGGAGTGCAGTGACGTGATCTTGGC
ACGCGT AAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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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_000690.4](#)

Summary:

This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of aldehyde dehydrogenase, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50% of East Asians have the cytosolic isozyme but not the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among East Asians than among Caucasians could be related to the absence of a catalytically active form of the mitochondrial isozyme. The increased exposure to acetaldehyde in individuals with the catalytically inactive form may also confer greater susceptibility to many types of cancer. This gene encodes a mitochondrial isoform, which has a low K_m for acetaldehydes, and is localized in mitochondrial matrix. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Nov 2016]

Locus ID:

217

MW:

75.5