

Product datasheet for **SC203107**

ALDH3A1 (NM_000691) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ALDH3A1 (NM_000691) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ALDH3A1
Synonyms:	ALDH3; ALDHIII
ACCN:	NM_000691
Insert Size:	262 bp
Insert Sequence:	>SC203107 3'UTR clone of NM_000691 The sequence shown below is from the reference sequence of NM_000691. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC CCGAGCCCGCCAAGATGACCCAGCAC TG AGGAGGGTTGCTCCGCCTGGCCTGGCCATACTGTGTCCC ATCGGAGTGGGACCCACTGACTGCTCCTGGCCCTGGGAGAATCGCTCCTGCAGCCCCAGCCAG CCCCACTCCTGCTGACCTGCTGACCTGTGCACACCCCACTCCACATGGGCCAGGCCTCACCATT CAAGTCTCACCCCTTTCTAGACCAATAAAGAGACGAATACAATTTTCTAACTCA ACGCGT AAGCGGCCGCGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
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:	<u>NM_000691.5</u>



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Summary:

Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2008]

Locus ID:

218

MW:

8.9