

Product datasheet for **SC203110**

ALDH3A1 (NM_001135168) Human 3' UTR Clone

Product data:

| | |
|--------------------|---|
| Product Type: | 3' UTR Clones |
| Product Name: | ALDH3A1 (NM_001135168) Human 3' UTR Clone |
| Vector: | pMirTarget (PS100062) |
| Symbol: | ALDH3A1 |
| Synonyms: | ALDH3; ALDHIII |
| ACCN: | NM_001135168 |
| Insert Size: | 282 bp |
| Insert Sequence: | >SC203110 3'UTR clone of NM_001135168 The sequence shown below is from the reference sequence of NM_001135168. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAA GCGATCGCC CCGAGCCCGCCAAGATGACCCAGCAC TGA GGAGGGTTGCTCCGCCTGGCCTGGCCATACTGTGTCCC ATCGGAGTGGGACCCACCTCACTGGCTCTCTGGCCCTGGGAGAATCGCTCCTGCAGCCCCAGCCAG CCCCACTCTGCTGACCTGTGACCTGTGCACCCCCACTCCACATGGGCCAGGCCTCACCATTC CAAGTCTCCACCCTTTCTAGACCAATAAAGAGACGAATACAATTTTCTAACTCAGCAAAAAAAAAA AAAAAA ACGCGT AAGCGGCCGCGGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG |
| Restriction Sites: | Sgfl-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_001135168.1</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:

9.8