

Product datasheet for **SC100335**

ALDH16A1 (NM_153329) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH16A1 (NM_153329) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDH16A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_153329, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGCGACGCGTGCAGGGCCCCGCGCCCGCAGATCTTCACCTCGCTGGAGTACGGACCGGTGCCGG
AGAGCCACGCATGCGCACTGGCTGGCTGGACACCCAGGACCGGTGCTTGGGCCACTATGTGAATGGGAA
GTGGTTAAAGCCTGAACACAGAAATTCAGTGCCTTGCCAGGATCCCATCACAGGAGAGAAGTGGCCAGT
TGCTTGCAGGCACAGGCCGAGGATGTGGCTGCAGCCGTGGAGGCAGCCAGGATGGCATTAAAGGGCTGGA
GTGCGCACCCCGCGCTCGTCCGGGCCAGCACCTGACCAGGCTGGCCGAGGTGATCCAGAAGCACCAGCG
GCTGCTGTGGACCCTGGAATCCCTGGTACTGGGCGGGCTGTTGAGAGGTTGAGACGGGGACGTCCAG
CTGGCCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGGAGGAGGCACTGGCAGGCTGGG
AGCCCATGGGAGTAATTGGCCTCATCTGCCACCCACATTCTCCTTCTGAGATGATGTGGAGGATTTG
CCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTCCCCCGGCCCTCCCGGCGCCCTCCTCCTG
GCCAGCTGGCGGGGAGCTGGGCCCTCCCGGGAATCCTGAATGTCTCAGTGGCCCTCGCTCCCTGG
TGCCCATCCTGGCCTCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGGAGGAAGGGCGTGC
CCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCTGGCGCTGGGGACGGAGTCCCTGCTGCTG
CTGACGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTGTGGACGCCCGCTGGTCCGACCGCGCC
CGGGTGGCCTCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGAT
GGGGCGGCTTCGGAGTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCCGGGGGCTGCCGCATGT
GACCTGGTCCAGCGCTTGTGCGTGAGGCCAGAGCCAGGGTGCACAGGTGTTCCAGGCTGGTGTGTGC
CTTCGGAACGCCATTCTATCCCCAACCTTGGTCTCAAACCTGCCCCAGCCTCCCATGTGCCAGGT
GGAGGTGCCGTGGCCTGTGGTGTGGCTCCCCCTCCGCACAGCCAAGGAGGCACTGTTGGTGGCCAAC
GGGACCCCCCGGGGGCAGCGCCAGTGTGTGGAGCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATG
GGCTCCAGGTGGCACTGTCTGGATCAACGCCACGGCCCTCAGAGACCCTTCGGTCCCCACAGGCGGCTG
CAAGGAGAGTGGGTGTTCTGGCACGGGGCCAGACGGGCTGTATGAGTATCTGCGGCCCTCAGGGACC
CCTGCCCGGCTGTCTGCCTCTCCAAGAACCTGAACTATGACACCTTTGGCCTCGCTGTTCCCTCAACC
TGCCGGCTGGGCCTGAAATAGGGCCAGCCAGCACCCCCCTATGGGCTCTTCGTTGGGGCCGTTTCCA
GGCTCCTGGGGCCGAAGCTCCAGGCCATCCGGGATTCGTCTGGCAACCTCCATGGCTACGTGGCTGAG
GGTGGAGCCAAGGACATCCGAGGTGCTGTGGAGGCCGCTCACCAGGCTTTCCTGGCTGGGCGGCCAGT
CCCCAGGAGCCCCGGCAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCCTGGC
CTCGAGGCTGGAGAGGCAGGGAGCGGAGCTCAAGGCTGCGGAGGGCGAGGTGGAGCTGAGCGCAAGACGA
CTTCGGGCGTGGGGGGCCGGGTGCAGGCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGAGGCCCTG
TGCTGCGCCTGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCGGACGAGTGGCCCCTGCTTGCCCT
CGTGTCCCTGCTGGCTCCCGCCCTGGCCTACGGCAAACTGTGGTGTGTTGCCAGTGGCGGCTGTCTCT
CTGCTGGCCCTGGAGGTCTGCCAGGACATGGCCACCGTGTCCAGCAGGCTGGCCAACGTGGTGTGACAG
GAGACCGGGACCATCTGACCCGCTGCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTCCGATC
AGCCCAGGGTTCCAGTTTGTGAGTGGGCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGC
TGCCCCGGGCTGGGACCAGGAGGCCAGGGGGCAGGCCAGAGCTGGGGCTGCGAGTGGCGGGACCA
AGGCCCTGTGGCTGCCTATGGGGACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_153329 unedited NGGTCAGATTTTGTAAACTATCATATAGGCGGCCGCGNAATTCGCACGAGGGAAAAGCGT TCGGGGTAGGCGATGGCTGCGACGCGTGACGGGCCCGCGCCCGGAGATCTTCACCTCG CTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGAGTAATTGGCCTCATCC TGCCACCCACATTCTCCTTCCTTGAGATGATGTGGAGGATTTGCCCTGCCCTGGCTGTGG GAAGGGCGTGCCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCCTGGCGCTG GGGACGGAGTCGCTGCTGCTGCTGACGGACACGGCGGACGTAGACTCGGCCGTGGAGGGT GTCGTGGACGCCCTGGTCCGACCGCGCCCGGGTGGCCTCAGGCTCCTCATCCAGGAG TCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGAGTGGC CGAGGGCTGGATGGGGCCGTGGACATGGGGGCCCGGGGGCTGCCGCATGTGACCTGGTC CAGCGCTTTGTGCGTGAGGCCAGAGCCAGGGTGACAGGTGTTCCAGGCTGGTATGTG CCTTCGGAACGCCATTCTATCCCCAACCTTGGTCTCCAACCTGCCCCAGCCTCCCCA TGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTGTGGCCTCCCCCTCCGCACAGCCAAA GGAGCACTGTTGGTGGCCAACGGGACGCCCGCGGGGGCAGGCCAATGTGTGGAGCGAG AGGCTGGGCANGCGCTNGAGCTGGGCTATGGGGCTCCAGTGGGCACTGTCTGGGATCACG NCCACGGNCTCAGAGACCCTTCGGTGCCCCACAGCGGCTGCAAGGAGAGTGGGTGTTCTG GCACGGGGGCCAN
Restriction Sites:	ECoRI-NOT
ACCN:	NM_153329
Insert Size:	2250 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:	NM_153329.2 , NP_699160.1
RefSeq Size:	2627 bp
RefSeq ORF:	2409 bp
Locus ID:	126133
UniProt ID:	Q8IZ83
Cytogenetics:	19q13.33
Domains:	aldehyd
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a member of the aldehyde dehydrogenase superfamily. The family members act on aldehyde substrates and use nicotinamide adenine dinucleotide phosphate (NADP) as a cofactor. This gene is conserved in chimpanzee, dog, cow, mouse, rat, and zebrafish. The protein encoded by this gene interacts with maspardin, a protein that when truncated is responsible for Mast syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2010]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).