

Product datasheet for **SC326620**

ALDH16A1 (NM_001145396) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH16A1 (NM_001145396) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDH16A1
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001145396, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGCGACGCGTGCAGGGCCCCGCGCCGCGAGATCTTCACCTCGTGGAGTACGGA
CCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCCGGTGTG
GGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCTTGCCAG
GATCCCATCACAGGAGAGAAGTGGCCAGTTGCCTGCAGGCACAGGCCGAGGATGTGGCT
GCAGCCGTGGAGGCAGCCAGGATGGCATTAAAGGGCTGGAGTGGCACCACCCGCGCTGTC
CGGGCCAGCACCTGACCAGGCTGGCCGAGGTGATCCAGAAGCACAGCGGCTGCTGTGG
ACCCTGGAATCCCTGGTACTGGCGGGCTGTTTCGAGAGTTTCGAGACGGGGACGTCCAG
CTGGCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGGAGGAGGCACTG
GCAGGCTGGGAGCCCATGGGAGTAATTGGCCTCATCTGCCACCCACATTCTCCTTCCTT
GAGATGATGTGGAGATTGGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGT
CCCCGGCCTCCCGCGCCCTCCTCCTGGCCAGCTGGCGGGGAGCTGGGCCCTTC
CCGGGAATCCTGAATGTCCTCAGTGGCCCTGCGTCCCTGGTGGCCATCCTGGCCTCCAG
CCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCGGAGGGTGGCCTCAGGCTCCTCATC
CAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGG
AGTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCCGGGGGCTGCCGCATGTGAC
CTGGTCCAGCGCTTGTGCGTGAGGCCAGAGCCAGGGTGACAGGTGTTCCAGGCTGGT
GATGTGCCTTCGGAACGCCATTCTATCCCCAACCTTGGTCTCCAACCTGCCCCAGCC
TCCCCATGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTGTGGCTCCCCCTTCCGCACA
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AGCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGG
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GCCCGGCTGTCCTGCCTCTCAAGAACCTGAACTATGACACCTTTGGCCTCGCTGTTCCC
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GCCGCTCACCAGGCTTTCCTGGCTGGGCGGGCCAGTCCCAGGAGCCCGGGCAGCCCTG
CTGTGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCCTGGCCTCGAGGCTGGAG
AGGCAGGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACACTT
CGGGCGTGGGGGCCCGGGTGCAGGCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGA
GGCCCTGTGCTGCGCCTGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCGGACGAG
TGGCCCTGCTTGCCCTCGTGTCCCTGCTGGCTCCCGCCCTGGCCTACGGCAACTGTG
GTCATGGTGGCCAGTGGGCCTGTCTCTGCTGGCCCTGGAGGTCTGCCAGGACATGGCC
ACCGTGTTCACAGCAGGCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGC
TGCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTGGATCAGCCAGGGTTCC
CAGTTTGTGAGTGGGCTCGGCAGGAACTCAAACCGGTGTGGGCGAGCAGGGGCTGC
CCGGGGCTGGGACCAGGAGCCGAGGGGGCAGGCCAGAGCTGGGGCTGCGAGTGGCG
CGGACCAAGGCCCTGTGGCTGCCTATGGGGAC
    
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Restriction Sites: Please inquire

ACCN: NM_001145396

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001145396.1</u> , <u>NP_001138868.1</u>
RefSeq Size:	2966 bp
RefSeq ORF:	2256 bp
Locus ID:	126133
UniProt ID:	<u>Q8IZ83</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region compared to variant 1 and remains in-frame. The encoded isoform (2) is shorter compared to isoform 1.</p>