

Product datasheet for **SC324163**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_153329.2
 GTCGCTCTTCGGACCTCAAGGTTCCCTTAACACAGAGCGCCCCGAGTCTTCGCGGAAA
 GCGTTCGGGGTAGGCGATGGCTGCGACGCGTGCAGGGCCCCGCGCCCGAGATCTTAC
 CTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACAC
 CCAGGACCGGTGCTTGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAA
 TTCAGTGCCTTCCAGGATCCCATCACAGGAGAGAAGTGGCCAGTTGCCTGCAGGCACA
 GGCCGAGGATGTGGCTGCAGCCGTGGAGGCAGCCAGGATGGCATTAAAGGGCTGGAGTGC
 GCACCCCGGCGTCTGCCGGGCCAGCACCTGACCAGGCTGGCCGAGGTGATCCAGAAGCA
 CCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTACTGGCGGGCTGTTTCGAGAGTTTCG
 AGACGGGGACGTCCAGCTGGCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCAC
 CCAGGAGGAGGCACTGGCAGGCTGGGAGCCATGGGAGTAATTGGCCTCATCCTGCCACC
 CACATTCTCCTTCTGAGATGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCAC
 CGTGGTGGCCCTCGTCCCCGGCCTCCCCGGCGCCCTCCTCCTGGCCAGCTGGCGGG
 GGAGCTGGGCCCTTCCGGGAATCCTGAATGTCGTGAGTGGCCCTGCGTCCCTGGTGCC
 CATCCTGGCCTCCAGCCTGGAATCCGGAAAGTGGCCTTCTGCGGAGCCCGGAGGAAGG
 GCGTGCCTTCGACGGAGCCTGGCGGGTGAAGTGTGCGGAGCTGGCCCTGGCGCTGGGGAC
 GGAGTCGCTGCTGCTGCTGACGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTG
 GGACGCCGCTGGTCCGACCGCGGCCCGGGTGGCCTCAGGCTCCTCATCCAGGAGTCTGT
 GTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGAGTGGCCGAGG
 GCTGGATGGGGCCGTGGACATGGGGGCCCGGGGGCTGCCGCATGTGACCTGGTCCAGCG
 CTTTGTGCGTGAAGCCAGAGCCAGGGTGCACAGGTGTTCCAGGCTGGTGTGTCCTTC
 GGAACGCCATTCTATCCCCAACCTTGGTCTCCAACCTGCCCCAGCCTCCCCATGTGC
 CCAGTGGAGGTGCCGTGGCCTGTGGTGTGGCCTCCCCCTTCGACAGCCAAAGGAGGCT
 ACTGTTGGTGGCCAACGGGACGCCCGGGGGGACGCGCAAGTGTGTGGAGCGAGAGGCT
 GGGGACAGCGCTGGAGCTGGGCTATGGGCTCCAAGTGGGCACTGTCTGGATCAACGCCCA
 CGGCCTCAGAGACCCTTCGGTGCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTGGCA
 CGGGGGCCAGACGGGCTGTATGAGTATCTGCGGCCCTCAGGGACCCCTGCCCGGCTGTC
 CTGCCTCTCCAAGAACCTGAACTATGACACCTTTGGCCTCGTGTTCCTCAACCCTGCC
 GGCTGGCCTGAAATAGGGCCAGCCAGCACCCTATGGGCTCTTCGTTGGGGGCCG
 TTTCCAGGCTCCTGGGGCCGAAGCTCCAGGCCATCCGGGATTCGTCTGGCAACCTCCA
 TGCTACGTGGCTGAGGGTGGAGCAAGGACATCCGAGGTGCTGTGGAGGCGCTCACCA
 GGCTTTCCCTGGCTGGCGGGCCAGTCCCAGGAGCCCGGCAGCCCTGCTGTGGGCCCT
 GCGGCTGCACTGGAGCGCCGGAAGTCTACCCTGGCCTCGAGGCTGGAGAGGCAGGGAGC
 GGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTCGGGCGTGGGG
 GGCCCCGGTGCAGGCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGAGGCCCTGTGCT
 GCGCCTGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCGGGACGAGTGGCCCTGCT
 TGCCTTCGTGTCCCTGCTGGCTCCCCCCTGGCCTACGGCAACACTGTGGTCATGGTGCC
 CAGTGGCCCTGTCCTCTGCTGGCCTGGAGGTCTGCCAGGACATGGCCACCGTGTTC
 AGCAGGCTGGCCAACGTGGTGCAGGAGACCGGGACCATCTGACCCGCTGCCTGGCCTT
 GCACCAAGACGTCCAGGCCATGTGGTATTTCGGATCAGCCAGGGTTCCAGTTTGTGCA
 GTGGGCCCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGGGGCTG
 GGACCAGGAGGCCGAGGGGGCAGGCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGC
 CCTGTGGCTGCCTATGGGGGACTGATGCCTGAGCGCCACCTACTGCATTTTGGACACCTC
 ACACCAAGGGGAGATGCACCCACGGACACCTGGGACTTCCCCTTCTGGTTCTCTGTGTC
 TCCCAATAAACTCTGTACCAACCCTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_153329

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:	NM_153329.2 , NP_699160.1
RefSeq Size:	2627 bp
RefSeq ORF:	2409 bp
Locus ID:	126133
UniProt ID:	Q8IZ83
Cytogenetics:	19q13.33
Domains:	aldedh
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 (1) represents the longer transcript and encodes the longer isoform (1).</p>