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Product datasheet for SC334965

ALDH3B1 (NM_001290059) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH3B1 (NM_001290059) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDH3B1
Synonyms:	ALDH4; ALDH7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001290059, the custom clone sequence may differ by one or more nucleotides

ATGACTGCTGCCGCCAAGCACCTGACACCTGTCACCCTGGAGCTGGGGGGCAAGAACCCTTGCTACGTGG
ACGACAACTGCGACCCCCAGACCGTGGCCAACCGCGTGGCCTGGTTCCGCTACTTCAACGCCGGCCAGAC
CTGCGTGGCCCCCGACTACGTCCTATGCAGCCCTGAGATGCAGGAGAGGCTGCTGCCTGCCCTGCAGAGC
ACCATCACCCGTTTCTATGGCGACGACCCCCAGAGCTCCCCAAACCTGGGCCGCATCATCAACCAGAAAC
AGTTCCAGCGGCTGCGGGCATTGCTGGGCTGCGGCCGTGTGGCCATTGGGGGCCAGAGCGATGAGAGCGA
TCGCTACATCGCCCCCACGGTGCTGGTGGATGTGCAGGAGATGGAGCCTGTGATGCAGGAGGAGATCTTC
GGGCCCATCCTGCCCATCGTGAACGTGCAGAGCTTGGACGAGGCCATCGAGTTCATCAACCGGCGGGAGA
AGCCCCTGGCCCTGTACGCCTTCTCCAACAGCAGCCAGGTGGTCAAGCGGGTGCTGACCCAGACCAGCAG
CGGGGGCTTCTGTGGGAACGACGGCTTCATGCACATGACCCTGGCCAGCCTGCCTTTTGGAGGAGTGGGT
GCCAGTGGGATGGGCCGGTACCATGGCAAGTTCTCCTTCGACACCTTCTCCCACCATCGCGCCTGCCTCC
TGCGCAGCCCGGGGATGGAGAAGCTCAACGCCCTCCGCTACCCGCCGCAATCGCCGCGCCGCCTGAGGAT
GCTGCTGGTGGCCATGGAGGCCCAAGGCTGCAGCTGCACACTGCTCTGA

Restriction Sites:	AscI-MluI
ACCN:	NM_001290059
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).

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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:	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_001290059.1, NP_001276988.1
RefSeq Size:	2774 bp
RefSeq ORF:	819 bp
Locus ID:	221
UniProt ID:	P43353
Cytogenetics:	11q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism
Gene Summary:	This gene encodes a member of the aldehyde dehydrogenase protein family. Aldehyde dehydrogenases are a family of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The encoded protein is able to oxidize long-chain fatty aldehydes in vitro, and may play a role in protection from oxidative stress. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014] Transcript Variant: This variant (5) differs in its 5' UTR and uses a downstream start codon, compared to variant 1. The encoded isoform (d) has a shorter N-terminus, compared to isoform a.