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Product datasheet for RC237071

ALDH3B1 (NM_001290059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH3B1 (NM_001290059) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALDH3B1
Synonyms:	ALDH4; ALDH7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237071 representing NM_001290059 Red=Cloning site Blue=ORF Green=Tags(s) CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC GCCC ATGACTGCTGCCGCCAAGCACCTGACACCTGTCACCCTGGAGCTGGGGGGCAAGAACCCTTGCTACGTGG ACGACAACTGCGACCCCCAGACCGTGGCCAACCGCGTGGCCTGGTTCCGCTACTTCAACGCCGGCCAGAC CTGCGTGGCCCCCGACTACGTCCTATGCAGCCCTGAGATGCAGGAGAGGCTGCTGCCTGCCCTGCAGAGC ACCATCACCCGTTTCTATGGCGACGACCCCCAGAGCTCCCCAAACCTGGGCCGCATCATCAACCAGAAAC AGTTCCAGCGGCTGCGGGCATTGCTGGGCTGCGGCCGTGTGGCCATTGGGGGCCAGAGCGATGAGAGCGA TCGCTACATCGCCCCCACGGTGCTGGTGGATGTGCAGGAGATGGAGCCTGTGATGCAGGAGGAGATCTTC GGGCCCATCCTGCCCATCGTGAACGTGCAGAGCTTGGACGAGGCCATCGAGTTCATCAACCGGCGGGAGA AGCCCCTGGCCCTGTACGCCTTCTCCAACAGCAGCCAGGTGGTCAAGCGGGTGCTGACCCAGACCAGCAG CGGGGGCTTCTGTGGGAACGACGGCTTCATGCACATGACCCTGGCCAGCCTGCCTTTTGGAGGAGTGGGT GCCAGTGGGATGGGCCGGTACCATGGCAAGTTCTCCTTCGACACCTTCTCCCACCATCGCGCCTGCCTCC TGCGCAGCCCGGGGATGGAGAAGCTCAACGCCCTCCGCTACCCGCCGCAATCGCCGCGCCGCCTGAGGAT GCTGCTGGTGGCCATGGAGGCCCAAGGCTGCAGCTGCACACTGCTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

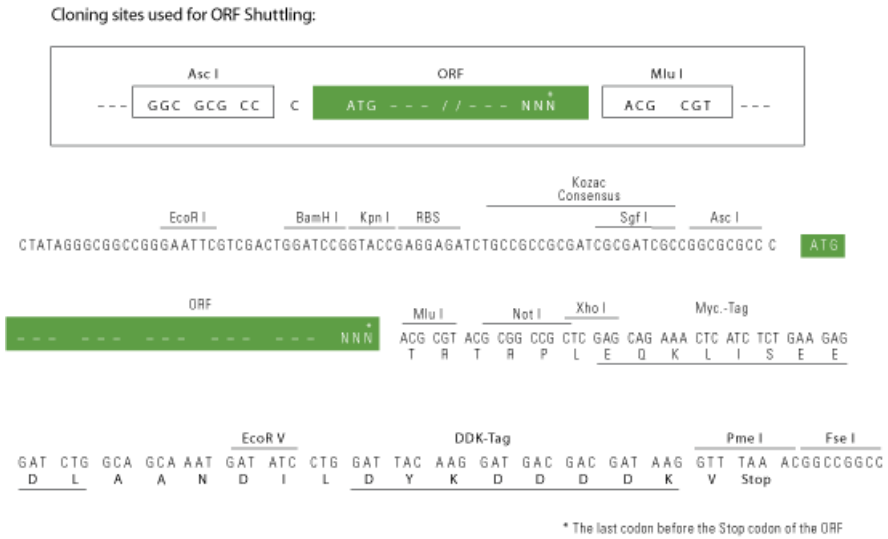
>RC237071 representing NM_001290059
Red=Cloning site Green=Tags(s)

MTAAAKHLTPVTLELGGKNPCYVDDNCDPQTVANRVAWFRYFNAGQTCVAPDYVLCSPEMQERLLPALQS
TITRFYGDDPQSSPNLGRIINQKQFQRLRALLGCGRVAIGGQSDESDRYIAPTVLVDVQEMEPVMQEEIF
GPILPIVNVQSLDEAIEFINRREKPLALYAFSNSSQVVKRVLTQTSSGGFCGNDGFMHMTLASLPFGGVG
ASGMGRYHGKFSFDTFSHHRACLLRSPGMEKLNALRYPPQSPRRLRMLLVAMEAQGCSCTLL

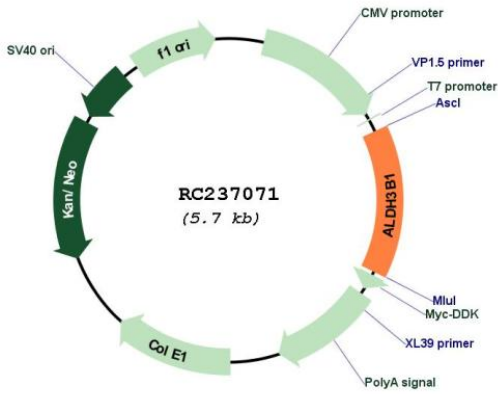
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: AscI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290059

ORF Size: 816 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001290059.2
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
MW:	30.5 kDa
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]