

Product datasheet for RC201125

ALDH3B2 (NM_001031615) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH3B2 (NM_001031615) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALDH3B2
Synonyms:	ALDH8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201125 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCC

ATGAAGGATGAACCACGGTCCACGAACCTGTTCATGAAGCTGGACTCGGTCTTCATCTGGAAGGAACCT
TTGGCCTGGTCTCATCATCGCACCTGGAACCTACCCACTGAACCTGACCCTGGTCTCTGGTGGGCGC
CCTCGCCCGAGGGAGTTGCGTGGTCTGAAGCCGTGAGAAATCAGCCAGGGCACAGAGAAGTCTGGCT
GAGGTGCTGCCCCAGTACCTGGACCAGAGCTGCTTGGCCGTGGTCTGGGCGGACCCAGGAGACAGGGC
AGCTGCTAGAGCACAAGTTGGACTACATCTTTCACAGGGAGCCCTCGTGTGGCAAGATTGTCATGAC
TGCTGCCACCAAGCACCTGACGCCTGTCACCCTGGAGCTGGGGGCAAGAACCCCTGCTACGTGGACGAC
AACTGCGACCCCCAGACCGTGGCCAACCGCGTGGCCTGTTCTGCTACTTCAATGCCGGCCAGACCTGCG
TGGCCCTGACTACGTCTGTGCAGCCCCGAGATGCAGGAGAGGCTGCTGCCCGCCTGCAGAGCACCAT
CACCCGTTTCTATGGCGACGACCCCCAGAGCTCCCCAACCTGGGCCGCATCATCAACCAGAAACAGTTC
CAGCGGCTGCGGGCATTGCTGGGCTGCGGCCGCGTGGCCATTGGGGGCCAGAGCAACGAGAGCGATCGCT
ACATCGCCCCACGGTGTGGTGGACGTGCAGGAGACGGAGCCTGTGATGCAGGAGGAGATCTTCGGGCC
CATCCTGCCCATCGTGAACGTGCAGAGCGTGGACGAGGCCATCAAGTTCATCAACTGGCAGGAGAAGCCC
CTGGCCCTGTACGCTTCTCCAACAGCAGCCAGGTTGTGAACCAGATGCTGGAGCGGACCAGCAGCGGCA
GCTTTGGAGGCAATGAGGGCTTACCTACATATCTCTGCTGCCATTTCGGGGGAGTCGGCCACAG
TGGGATGGGCCGGTACCACGGCAAGTTACCTTCGACACCTTCTCCACACCACCGACCTGCCTGCTCGCC
CCCTCCGGCCTGGAGAAATTAAGGAGATCCACTACCCACCTATACCGACTGGAACCAGCAGCTGTTAC
GCTGGGCATGGGCTCCAGAGCTGTACCCTCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201125 protein sequence
Red=Cloning site Green=Tags(s)

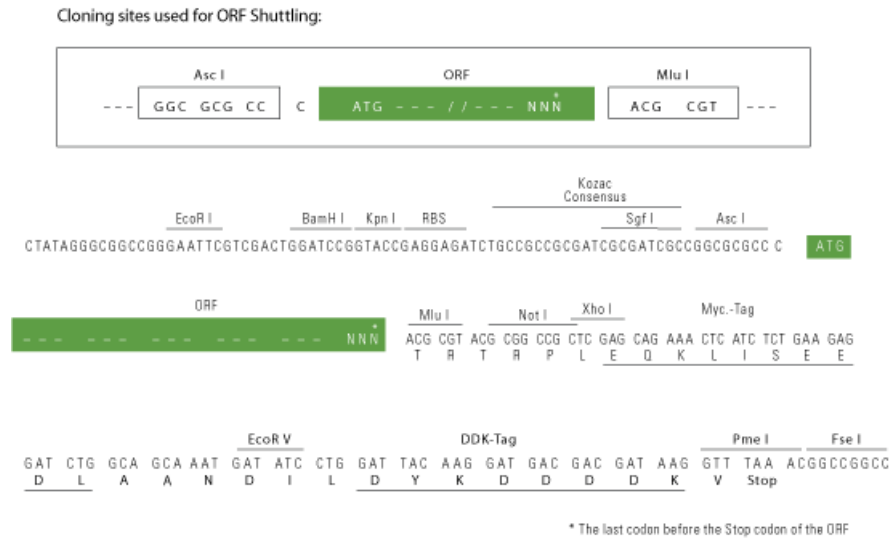
MKDEPRSTNLFMKLDSVFIWKEPFGLVLIAPWNYPLNLTLLVLLVGLAAGSCVVLKPSEISQGTEKVLAEVLPQYLDQSCFAVLLGGPQETGQLLEHKLDYIFFTGSPRVGKI VMTAATKHLTPVTLELGGKNPCYVDDNCDPQTVANRVAVFCYFNAGQTCVAPDYVLCSPEMQERLLPALQSTITRFYGGDDPQSSPNLGRINQKQFQRLRALLGCGRVAIGGQSNESDRYIAPTVLVDVQETEPVMQEEIFGPILPIVNVQSVDEAIKFINWQEKPLALYAFSNSSQVYNQMLERTSSGSFGGNEGFTYISLLSVPFGGVGHSGMGRYHGKFTFDTFSHHRTCLLAPSGLEKLEIHYPPYTDWNQQLLRWGMGSQSCTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6800_d05.zip

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_001031615

ORF Size: 1155 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001031615.1](#), [NP_001026786.1](#)

RefSeq Size: 2504 bp

RefSeq ORF: 1158 bp

Locus ID: 222

Cytogenetics: 11q13.2

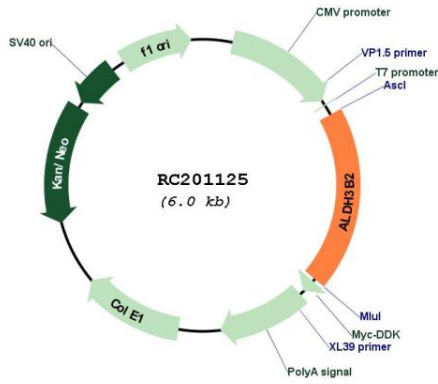
Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism

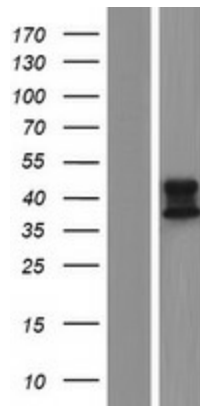
MW: 42.7 kDa

Gene Summary: This gene encodes a member of the aldehyde dehydrogenase family, a group of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The gene of this particular family member is over 10 kb in length. Altered methylation patterns at this locus have been observed in spermatozoa derived from patients exhibiting reduced fecundity. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RC201125



Western blot validation of overexpression lysate (Cat# [LY424565]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC221866] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).