

Product datasheet for **RR203802**

Aldh1b1 (NM_001011975) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh1b1 (NM_001011975) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh1b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR203802 representing NM_001011975
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAACGCCGATTCTTGGTCCCCGGCTCCTCTGCCTCCAGGGCAGGACCCTCATATTCTACAG
 CGGCTGCTCTCCCAAACCAATCCCAAACCCAGAGATTGCTACAACCAGCTGTTTCATCAACAACGAGTG
 GCATGATGCGGTGAGCAAAAAGACCTTCCCCACGGTGAACCCACGACAGGCGAGGTCATTGGGCATGTG
 GCTGAAGGTGACCGGGCAGATGTGGATCTGGTGTGAGAGCAGCCCGAGAAGCCTTCCGCCTGGGGTCCC
 CGTGGCGCAGGATGGATGCCTCAGAGCGGGGCCGGCTGCTGAACCGCCTAGCTGATCTCGTGAACGGGA
 TCGAGTGTACTTGGCCTCACTGGAGACCCTGGATAATGGGAAACCTTTTCAGGAGCTTATGTCTTGGAC
 CTGGATGAAGTCATCAAGGTATACCGTTACCTTGGTGGTGGCTGACAAATGGCATGGTAAGACCATCC
 CAATGGACGGCGAACATTTCTGCTTACCCGCCATGAGCCAGTGGGTGTCTGTGGCCAGATAATCCCTTG
 GAACCTCCCATTTGGTCATGCAGGTTGGAAGCTGGCCCCAGCACTGCCACAGGCAACACCGTGGTCATG
 AAGGTGGCAGAGCAAACCCCACTTTCTGCTCTGTACTTGGCTCCCTCATCAAGGAAGCGGGGTTTCCCC
 CAGGAGTGGTGAATATCATCACCGGCTACGGCCCCACTGCAGGAGCAGCCATTGCCACGACATGGATGT
 GGATAAAGTGCCTTACCCGGCTCTACCGAGTGGGCCACCTGATTGAGAAGGCCCGCGGTATTCCAAC
 CTCAAGAGAGTCAACCTGGAGCTGGGTGGGAAAAGCCCCAGCATCGTGTGGCAGACGCTGACATGGATC
 ACGCCGTAGACCAGTGTACGAAGCCCTCTTTTCAACATGGGTGAGTGTGTGTCAGGATCCCGGAC
 ATTCGTGGAAGAGTCCATCTATCATGAGTTTCTCGAGAGAAGTGTGGAGAAGCCAAGAAGAGGAAAGTG
 GGAACCCCTTTGAGTTGGACTCAACAGGGACCTCAGGTGGACAAGGAGCAATTTGAAAAGATCCTGG
 GCTACATCCGGCTTGGACAGAAGGAAGGGGCAAAGCTTCTGTGGTGGGAGCGTTTCGGGGAACGCGG
 CTTCTTCAATCAAGCCACAGTCTTTGGGAATGTTCAAGGATGACATGAGGATCGCCAGGGAGGAGATCTTT
 GGGCCTGTGCAGCCTCTGTTCAAGTTCAGAAGATCGAGGAAGTAAATCCAGAGAGCAACAATAACAGGT
 ACGGCTTGGTGCAGCTGATTACCCGAGACCTGGACAAGGCCTTATACTTTTCCAGGCCCTGCAAGC
 CGGGACCGTGTGGGTGAACACCTACAATATCGTCACCTGCCACACGCCATTTCGGAGGCTTTAAGGAATCC
 GGCAATGGCAGAGAGCTGGGGAAAGATGGGCTTAAAGCCTACACGGAGGTGAAGACTGTCACCATCAAGG
 TTTCTGAGAAGAATTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203802 representing NM_001011975
 Red=Cloning site Green=Tags(s)

MLNARFLVPRLLCLOGRTTSYSTAAALPNPIPNEIRYNQLFINNEWHDAVSKKTFPTVNPPTTGEVIGHV
 AEGDRADVDLAVRAAREAFRLGSPWRRMDASERGLLNRLADLVERDRVYLASLETLDNKPFQESYVLD
 LDEVIKVYRYLAGWADKWHGKTIIPMDGEHFCFTRHEPVGVCQIIPWNFPLVMQGWKLAPALATGNTVVM
 KVAEQTPLSALYLASLIKEAGFPFPGVVNIITGYGPTAGAAIAQHMDVDKVAFTGSTEVGHLIQKAAGDSN
 LKRVTLLELGGKSPSIVLADADMHDHAVDQCHEALFFNMGQCCAGSRTFVEESIYHEFLERTVEKAKKRKV
 GNPFEELDTQQGPQVDKEQFEKILGYIRLGQKEGAKLLCGGERFGERGFFIKPTVFGNVQDDMRIAREEIF
 GPVQPLFKFKIEEVIQRANTRYGLAAAVFTRDLKALYFSQALQAGTVVWNTYNIIVTCHTPFGGFKES
 GNGRELGEDGLKAYTEVKTVTIKVSEKNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001011975

ORF Size: 1557 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_001011975.1, NP_001011975.1
RefSeq Size: 2221 bp

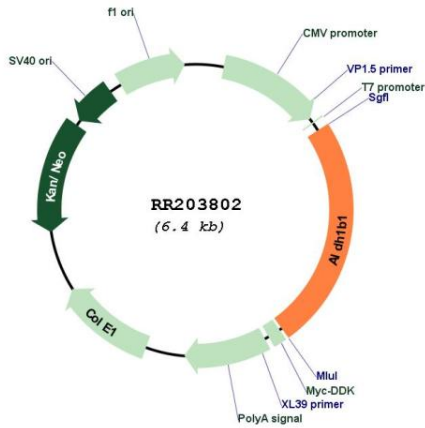
RefSeq ORF: 1560 bp

Locus ID: 298079

UniProt ID: Q66HF8

Cytogenetics: 5q22
MW: 57.6 kDa
Gene Summary: ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR203802