

Product datasheet for **RN203802**

Aldh1b1 (NM_001011975) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN203802 representing NM_001011975
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAACGCCCGATTCTTGGTCCCCGGCTCCTCTGCCTCCAGGGCAGGACCCTCATATTCTACAG
 CGGCTGCTCTCCCAAACCCAATCCCAAACCCAGAGATTGCTACAACCAGCTGTTCATCAACAACGAGTG
 GCATGATGCGGTGAGCAAAAAGACCTTCCCCACGGTGAACCCACGACAGGCGAGGTCATTGGGCATGTG
 GCTGAAGGTGACCGGCAGATGTGGATCTGGTGTGAGAGCAGCCGAGAAGCCTTCCGCTGGGGTCCC
 CGTGGCGCAGGATGGATGCCTCAGAGCGGGGCCGGCTGCTGAACCGCCTAGCTGATCTCGTGAACGGGA
 TCGAGTGTACTTGGCCTCACTGGAGACCCTGGATAATGGGAAACCTTTTCAGGAGCTTATGTCTTGGAC
 CTGGATGAAGTCATCAAGGTATACCGTTACCTTGGTGGCTGGCTGACAAATGGCATGGTAAAGACCATCC
 CAATGGACGGCGAACATTTCTGCTTACCCGCCATGAGCCAGTGGGTGTCTGTGGCCAGATAATCCCTTG
 GAACCTTCCATTGGTCATGCAGGTTGGAAGCTGGCCCCAGCACTCGCCACAGGCAACACCGTGGTCATG
 AAGGTGGCAGAGCAAACCCCACTTCTGCTCTGTACTTGGCTCCCTCATCAAGGAAGCGGGGTTCCCC
 CAGGAGTGGTGAATATCATCACCGGCTACGGCCCCACTGCAGGAGCAGCCATTGCCAGCACATGGATGT
 GGATAAAGTCGCCTTACCCGGCTCTACCGAGGTGGGCCACCTGATTGAGAAGGCCCGGTGATTCCAAC
 CTCAAGAGAGTCAACCTGGAGCTGGGTGGGAAAAGCCCCAGCATCGTGTGCTGGCAGACGCTGACATGGATC
 ACGCCGTAGACCAGTGTACGAAGCCCTCTTTTCAACATGGGTGAGTGTGCTGTGCAGGATCCCGGAC
 ATTCGTGGAAGAGTCCATCTATCATGAGTTTCTCGAGAGAAGTGTGGAGAAGGCCAAGAAGAGGAAAAGTG
 GGAACCCCTTTGAGTTGACACTCAACAGGGACCTCAGGTGGACAAGGAGCAATTTGAAAAGATCCTGG
 GCTACATCCGGCTTGGACAGAAGGAAGGGCAAAGCTTCTGTGGTGGGAGCGTTTCGGGGAACCGCGG
 CTCTTTCATCAAGCCCACAGTCTTTGGGAATGTTGAGGATGACATGAGGATCGCCAGGGAGGAGATCTTT
 GGGCCTGTGCAGCCTCTGTTCAAGTTCAGAAGATCGAGGAAGTAAATCCAGAGAGCCAACAATACAGGT
 ACGGCTTGGCTGCGGCTGATTACCCGAGACCTGGACAAGGCCTTATACTTTTCCAGGCCCTGCAAGC
 CGGGACCGTGTGGGTGAACACCTACAATATCGTCACCTGCCACACGCCATTTCGGAGGCTTTAAGGAATCC
 GGCAATGGCAGAGAGCTGGGGGAAGATGGGCTTAAAGCCTACACGGAGGTGAAGACTGTCACCATCAAGG
 TTTCTGAGAAGAATTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001011975
- Insert Size:** 1560 bp
- 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).
- 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

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]