

Product datasheet for **MC217511**

Aldh5a1 (NM_172532) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh5a1 (NM_172532) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aldh5a1
Synonyms:	6330403E24Rik; Ahd-1; Ahd1; D630032B01Rik; OTTMUSG00000000613; SSADH; Ssdh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217511 representing NM_172532
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACCTGCTTTCTGCTGCGGAGCTTCTGGGCGCGCGTCTGCGCTGCCGCCCTCCCGGCCGCTTCC
 GCCCGGAGCCCGCAGGAACCCCGCGGCAGCTACGCCAGCGGCCCGGGGGCCTCCACGCCGACCTACT
 CCGCGGGGACAGCTTCGTGGGCGCCGCTGGCTCCAGCCCCGCCACCTTCCCGGTGTACGACCCGGCC
 AGCGGCGCAAGCTGGGCACCGTGGCCGACTGCGGGGTACCCGAGGCCCGCGCTGCTGTGCGCGCCGCT
 ACGATGCCTTCAACAGCTGGAAGGGTCTCGGTCAAGGAGAGGAGCTTACTACTCCGTAATGGTACGA
 CTTAATGATACAAAATAAGGACGACCTTGCCAAGATCATAACAGCCGAGAGTGAAAGCCACTGAAAGAG
 GCCCAGGAGAAATTCGTATTCAGCCCTTTCTGGAGTGGTTCTCAGAGGAAGCTCGCCGATTTATG
 GAGACATCATCTATACCTCTGCCAAAGATAAGCGAGGGCTAGTCCTCAAGCAGCCGTTGGTGTGGCGGC
 CATCATCACACCGTGAATTTTCCAGTGGGATGATCACCCGAAAGTGGGGGCCCTTGGCAGCTGGC
 TGCACTGTGGTGGTGAACCTGCTGAAGACACACCCTATTCGCCCTGGCCCTGGCTCAGCTTGCAAAC
 AGCGGGGAATCCCTGCAGGTGTCTACAACGTCATTCCTGCTCTAGAAACAAGGCCAAGGAAGTGGGAGA
 GGTCTGTGTACCGATCCATTGGTGTCCAAAATTTCTTTACTGGCTCAACAGCAACGGGAAAGATCCTG
 CTACATCACGCAGCAAATTCGTGAAGCGTGTCTCCATGGAGTTGGTGGCCCTCGCCCCATTCATTGTCT
 TTGACAGTGCCAAACGTAGACCAGGCCGTCGCGGGGCAATGGCGTCTAAATTTAGGAATGCTGGGCAGAC
 TTGCGTTTGCTCAAACAGATTCTTGGTACAGCGGGGATCCACGATTCCTTTGTAACGAAATTTGCGGAA
 GCCATGAAGAAAAGCCTGCGTGTAGGTAACGGATTTGAGGAAGGAACACTCAAGGGCCGTTAATTAATG
 AGAAAGCTGTAGAAAAGGTAGAGAAGCAGGTGAATGACGCAGTTGCCAAAGGGGCCACGTTGTGACGGG
 CGGAAAGCGACACCAAAGTGGAGGAAATTTCTTTGAGCCACCCTGCTCAGCAATGTCACCAGGGACATG
 CTCTGCATCACTGAGGAGACCTTTGGACCTCTGGCACCAGTCATCAAGTTTGATAAGGAGGAAGAGGCCG
 TCGCCATCGCAAATGCAGCTGAGGTTGGATTGGCAGGTTACTTTTACTCTCAAGACCCGGCCAGATCTG
 GAGAGTGGCGGAGCAGCTGGAGGTGGCATGGTCGGTGTGAATGAAGGGCTCATCTTTCAGTGAATGT
 CCTTTTGGTGGGGTGAACAGTCCGGCCTTGGGCGCGAGGGGTCCAAGTATGGCATTGACGAGTACCTAG
 AGGTCAAGTATGTGTGTACGGAGGCTT**GTAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_172532
- Insert Size:** 1572 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.

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

RefSeq: [NM_172532.3](#), [NP_766120.1](#)

RefSeq Size: 5647 bp

RefSeq ORF: 1572 bp

Locus ID: 214579

UniProt ID: [Q8BWF0](#)

Cytogenetics: 13 10.77 cM

Gene Summary: Catalyzes one step in the degradation of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA).[UniProtKB/Swiss-Prot Function]