

Product datasheet for **MC205487**

Aldh4a1 (NM_175438) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh4a1 (NM_175438) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aldh4a1
Synonyms:	A930035F14Rik; Ahd-1; Ahd1; Aldh4; Aldh5a1; E330022C09; P5cd; P5cdh; P5cdhl; P5cdhs; Ssdh1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC056226
 CCGAAGGAGGTGGACCGGGCGATGCTGCGCCTCCCGCAGAGGTAGTGCCTCCGGGCTTGTCTAGTCCAG
 CCCTGCGGGGCTGACTCTTAGCTTCCCACAGCTGCGCAAGACTGTTAAGAGTCTCCGCGATGCTGCCGCT
 GCCGTGCTCCGCGATCCCTGCTGTCCACGCTGGAGGAGCGCTGGGCTGCGATGGAAGCACACCTCT
 TCTCTAAAGGTGGCCAATGAGCCCATCTTAGCATTCTCTCAGGGAAGCCCGAGCGGGATGCACTGCAGA
 AGGCTCTGAAGGACCTGAAGGGCCAGACGGAAGCCATCCCCTGCGTTGTGGGGACGAGGAGGTGGAC
 CTCCGATATACAGTACCAGTTGTGCCCTTTAACCATGCACACAAGGTGGCCAAGTTCTGCTATGCTGAT
 AAGGCCTTGCTCAACAGAGCCATCGATGCTGCCTTGGCTGCCAGGAAAGAGTGGGACCTGAAGCCCATGG
 CAGACCGGGCCAGTCTTCTTGAAGCGGCAGATATGCTGAGTGGGCCCGAAGGGCGGAAGTCTTGC
 CAAGACCATGGTGGGACAGGGCAAGACCGTGATCCAAGCAGAGATCGATGCTGCAGCCGAACCTATCGAC
 TTCTTCAGGTTCAACGCAAAGTTCGCCGTGGAAGTGGAGGGGAAACAGCCATCAGCGTGCCACCCAGCA
 CCAACCACACGGTGTACCGGGGCTGGAGGGCTTCGTGGCGGCCATCTCTCCCTCAACTCACCAGCGAT
 TGGAGGCAACCTGGCAGGCGCTCCGGCCTAATGGGCAACGTGGTCTGTGGAAGCCAGTGACACTGCC
 ATGCTGGTAGCTACGCCGTCTACCGCATCTCCGGGAGGCGGCTTGCSCCAACATAATCCAGTTTG
 TGCCAGCCGACGGGCAACCTTCGGGGACACAGTACCAGCTCAGAGCACCTTTGTGGCATCAATTTTAC
 AGGCAGTGTCCACCTTCAAACACCTGTGGAGGCAAGTGGCCAGAACCTGGACCGGTTCCGTACCTTC
 CCACGCTTGGCTGGAGAGTGTGGCGGGAAGATTTCCATTTCTGTCACAGCTCGGCCGACGTGGACAGCG
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 CGTGCCGAAGTCGCTGTGGCCGAGATCAAAGGGCGACTGCTGGAGGAACACAGCAGGATCAAAGTGGGG
 GATCCTGCAGAGGACTTTGGGACCTTCTTCCGAGTGATTGATGCCAAGGCCTTTGCTCGCATTAAGA
 AGTGGTTGGAGCATGCAGTTCCTCGCCAGCCTCAGCATCCTGGCAGGGGGCCAGTGTAAAGAGTCACT
 GGGTACTACGTGAACCATGTATCATTGAGAGCAAGGACCCACAGGAACCCATCATGAAGGAGGAGATC
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 GCATCCAGCTATGGCCTCACGGGGCAGTGTTCGCCAGGATAAAGCGATTGTCCAGGAGGCCACGAG
 GATGCTGAGGAACGCTGCTGGCAACTTCTACATCAACGATAAGTCTACTGGTCTGTGGTGGCCAGCAG
 CCCTTTGGGGGCGCCGGGCTCAGGAACCAATGACAAGCCAGGAGGTCCCACTACATCTTACGCTGGA
 CATCACCCAGGTCATCAAGGAGACTATAAGCCCTGGGGGACTGGCGATACTCTACATGCAGTGAGC
 CCAGGCCAGCACCTCTGTGTCAAGCAGATGTCCATCCAGATGACTGACATCTCTGCACTGACCCCTGC
 TCCCCACCAGCTCCTCTGGACTCTCTACAGCTGAGCTGGACCCTGTCTGGCCACTGGGTGCTGTCTCT
 CGGAGTCAAGTGGCCAGGCTTCGGGTCAATTGGGGAGGATCAGCCCAATCCACCAGAATTCTCATCTG
 CTGCAGAACGCCCTGGTACCTGGCAGGTTCCCGCCTGTCTGCTTTTCTCTTCTCATCTGGCCCTGGT
 ACTCAGAGGGCCTCAGAACCTAAAGGGATATTCTCAGGACCCTGTGAGGAAAGGAGACAGCTCTGGTGT
 TCACTTCAACACTCAGAGACTCCTGACTTTGGCCTTGTCCCTACACATGTCCAGTGAGATAGGACCTCA
 GCCAGATGACTGCAGGGGACCAGCTGGCTTTGCCCTTGGTCTGTGCTAGCTCCTCTGCAGGGACTTG
 TATCCAGCCATATGCCTTTAGTCCCATGTGCCTTCTCCAGGGTCTTGTGCATCCCTGAGCCTTATCC
 CTCCTGGACACCTGCTGGGAGTGACCAGTGGTGGTTCGTCACATACAGGCTGAGTCTGGGAAACCTCGAGG
 TGGGCTCCATTCATCTTGTGGGATGGATGCAGCCAGCCAGTGGTAGCCAGGGAGAGCTCCTGCTG
 TGGTCCACATGGAAGTGGTATAGCTGTACCAAGGGTACACTGAAGGGTGGGTACCAGTATCAGGGCCA
 GCTCTGCCTTCTGCTTCCCTTTCAGGGTCCATGTTGCTTCCAGGGAGCAGGACTCGGCTACAAATGTCCC
 AGTTGTGCAAGTGTACTGTGAGGGGGTGGGCTACTGCCACCCGAGAAAAAATGCCAGATATCTA
 CTCAAAGTGGCCATGGAGGGAGGGAAAGGGCAGACTGGCTTCTATTCTAATCTAATGAACTGCCAGCG
 TCTTGTACAGTGGTTCTGTGCGGTGTCATGGGAGGGAGGAGTACTCCGGAGCCCAATGGCTAGGTTTGA
 AAATGGCTTTCTGTCCACCCCCCAAGTGGTCAAAAAAATCATGTAATTTCTCAAACCTTCCAT
 GTCTAAAATGGTATGATTCCGTCATATGCACGGAGGATCAATGGGCTAATCCTGTGGATTTAGACAA
 ATGATCAGAAATGCACCCGTTCTGTTTCTCCTACCAGTATGTGCTGGTGGCTGATCTTATGTGTC
 ACCTTTGCTGGCCACGGTTCAGAGACTGGTCCAGCCACTGTGGAAGTTTTTATGATGGTGAATAAA
 TACGTGGGCAAAAATAA

Restriction Sites: RsrII-NotI

ACCN: NM_175438

Insert Size:	1689 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:	<ol style="list-style-type: none">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:	BC056226 , AAH56226
RefSeq Size:	3281 bp
RefSeq ORF:	1689 bp
Locus ID:	212647
UniProt ID:	Q8CHT0
Cytogenetics:	4 70.79 cM
Gene Summary:	Irreversible conversion of delta-1-pyrroline-5-carboxylate (P5C), derived either from proline or ornithine, to glutamate. This is a necessary step in the pathway interconnecting the urea and tricarboxylic acid cycles. The preferred substrate is glutamic gamma-semialdehyde, other substrates include succinic, glutaric and adipic semialdehydes (By similarity). [UniProtKB/Swiss-Prot Function]