

Product datasheet for **MC205735**

Aldh7a1 (NM_138600) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh7a1 (NM_138600) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aldh7a1
Synonyms:	Atq1; D18Wsu181e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC012407
 CCCTGGCGGAGGGGCTTCTTGCCTGCTGAGCTCAGTATGTGGCGTGTGCCCCGAGGCTCTGTGTGCAGT
 CTGTGAAGACCAGCAAGCTTCCGGACCTTGGAGCAGGCCCGCCACATGTCTACTCTGCTGATCCA
 TCATCCCCAGTATGCCTGGCTGCAAGACCTGGGGCTCCGCGAGGATAACGAGGGCGTGTATAATGGAAGC
 TGGGGCGCCGGGAGAGGTAATTACGACCTATTGTCTGCTAACAAATGAGCCAATAGCAAGAGTCCGAC
 AGGCCAGCCTGAAGGACTATGAAGAAACCATCGGAAAAGCCAAGAAAGCCTGGAACATCTGGCAGATAT
 TCCTGCCCCAAAGCGAGGAGAAATAGTCAGAAAGATTGGCGATGCCTTCCGGGAGAAAGATTCAACTACTG
 GGAAGACTGGTGTCTTTGGAGATGGGAAAATCCTCGTGAAGGAATAGGCGAGGTTCAGGAGTACGTGG
 ACGTCTGTGACTATGCTGCTGGCTTGTGCGAGGATGATCGGGGACCCACCTTGCCTTCTGAAAGACCCGG
 CCATGCTCTCATCGAAATGTGGAATCCCTTAGGCTTGGTGGGAATCATCACTGCCTTCAATTTCCCGTG
 GCTGTGTTTGGCTGGAACAATGCCATAGCCCTGATCACAGGGAATGTCTGCCTTTGGAAAGGAGCACCGA
 CTACGTCCTCGTTAGTGTGGCTGTCAAAAGATCATAGCCAGGTTTGGAGGACAACCTGCTGCCCGG
 TGCCATTTGTTCCCTGGTTTGTGGTGGAGCAGATATCGGCACAACGATGGCCAGAGATGAGCGTGTGAAC
 CTGCTGCTCTTACTGGGAGCACTCAGGTGGGAAAGGAGGTGGCCCTCATGGTGCAGGAGAGGTTGGGA
 AAAGCTTGTGGAGCTTGGAGGAAACAACGCCATTATTGCTTTGAGGACGCGGACCTCAGCTTGGTTGT
 TCCATCAGTTCTGTTGCCGCCGTGGAAACAGCTGGGCAAAGGTGTACCACTGTGAGGCGACTGTTTTTG
 CACGAAAGCATCCATAATGAAGTTGTGGACAGACTGAGAAGTGCCTACTCACAGATCCGTGTGCGGAACC
 CCTGGGACCCCAATATCCTCTATGGACCCTCCATACCAAACAGGCAGTGAAGTGTGTTGTGAGAGCCGT
 GGAAGAAGCCAAGAAACAAGGGGACAGTGGTCTATGGGGGCAAGGTGATGGACCACCCTGGCAATTAC
 GTGGAACCCACCATTTGTGACCGTCTTGCCCATGATGCGCCCATTTGTTACCAGGAGACTTTTGCSCCAA
 TCCTCTATGTCTTCAAATCCAGGATGAAGAAGAGGTCTTTGAATGGAACAATGAAGTAAACAGGGACT
 TTCAAGTAGTATCTTACCAAAGATTTGGGCAGAAATCTCCGCTGGCTTGGACCTAAAGTTCCGACTGT
 GGCATCGTGAACGTCAATATTCCTACCAGCGGGCTGAGATTGGTGGTGCCTTTGGCGGAGAGAGCACACA
 CTGGCGGTGGCCGGGAGTCTGGCAGCAGCGCCTGGAAGCAGTACATGAGGAGATCCACATGTACCATCAA
 CTACAGCAGTCCCTCCCTCTGGCTCAGGGAATCAAGTTTCAGTGATACTGCGTGGGCTTGGCGTCCCTT
 AGCCATTCCTGTGGCTGCTCGGAAGAAGCCTGAAAGGACCCTGACTTGCCCGGATAAATGATGGCTTTG
 AGTACGGACAGCAGTGTCTAATCTCCAGTGATTCACAGACCCCTGTCTAAATCAAGATACTCATTATCA
 AAAGTTCAAAATTAATATTCACAACCTAGCTGCATTTAGCAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_138600

Insert Size: 1536 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: [BC012407](#), [AAH12407](#)

RefSeq Size: 1881 bp

RefSeq ORF: 1536 bp

Locus ID: 110695

UniProt ID: [Q9DBF1](#)

Cytogenetics: 18 30.55 cM

Gene Summary: Multifunctional enzyme mediating important protective effects. Metabolizes betaine aldehyde to betaine, an important cellular osmolyte and methyl donor. Protects cells from oxidative stress by metabolizing a number of lipid peroxidation-derived aldehydes. Involved in lysine catabolism (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (a).