

Product datasheet for **MC207316**

Ldha (NM_010699) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ldha (NM_010699) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ldha
Synonyms:	I7; I7R2; LDH; Ldh-; Ldh1; Ldhm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207316 representing NM_010699 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAACCCCTCAAGGACCAGCTGATTGTGAATCTTCTTAAGGAAGAGCAGGCTCCCCAGAACAAGATTA
CAGTTGTTGGGGTTGGTGTCTGTTGGCATGGCTTGCCATCAGTATCTTAATGAAGGACTTGGCGGATGA
GCTTGGCCTTGTGACGTCATGGAAGACAACTCAAGGGCGAGATGATGGATCTCCAGCATGGCAGCCTC
TTCCTTAAACACCAAAAATTGTCTCCAGCAAAGACTACTGTGTAAGTGGAACTCCAAGCTGGTCATTA
TCACCGCGGGGGCCCGTCAGCAAGAGGGGGAGAGCCGGCTCAACCTGGTCCAGCGAAACGTGAACATCTT
CAAGTTCATCATTCCCAACATTGTCAAGTACAGTCCACACTGCAAGCTGCTGATCGTCTCCAATCCAGTG
GATATCTTGACCTACGTGGCTTGAAAAATCAGTGGCTTTCCCAAAAACCGAGTAATTGGAAGTGGTTGCA
ATCTGGATTACGCGCGGTTCCGTTACCTGATGGGAGAGAGGCTGGGGGTTACGCGCTGAGCTGTACCGG
CTGGGTCTGGGAGAACATGGCGACTCCAGTGTGCCTGTGTGGAGTGGTGTGAATGTTGCCGGCCTCTCC
CTGAAGTCTTTAACCCAGAAGTGGGACTGACGAGCAAGGAGCAGTGGAAAGGAGTTACAAGCAGG
TGGTGGACAGTGCCTACGAGGTGATCAAGCTGAAAGGTTACACATCCTGGGCCATTGGCCTCTGTGCG
AGACTTGGCTGAGAGCATAATGAAGAACCTTAGCGGGTGCATCCCATTTCCACCATGATTAAGGGTCTC
TATGGAATCAATGAGGATGTCTTCTCAGTGTCCATGTATCCTGGGACAAAATGGAATCTCGGATGTTG
TGAAGGTGACACTGACTCCTGAGGAAGAGGCCCGCCTGAAGAAGAGCGCACACCCCTCTGGGGAATCCA
GAAGGAGCTGCAGTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2082_e08.zip



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Restriction Sites: Sgfl-Mlul

ACCN: NM_010699

Insert Size: 999 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC094019](#), [AAH94019](#)

RefSeq Size: 1661 bp

RefSeq ORF: 999 bp

Locus ID: 16828

UniProt ID: [P06151](#)

Cytogenetics: 7 30.6 cM

Gene Summary: The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to hemolytic anemia and early postimplantation death in mice. Multiple transcript variants encoding different isoforms have been found for this gene. The mouse genome contains multiple pseudogenes of this gene. [provided by RefSeq, May 2013]
Transcript Variant: This variant (1) encodes the predominant isoform (1).