

Product datasheet for **MR204898**

Ldha (NM_010699) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ldha (NM_010699) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ldha
Synonyms:	I7; I7R2; LDH; Ldh-; Ldh1; Ldhm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204898 representing NM_010699 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACCCCTCAAGGACCAGCTGATTGTGAATCTTCTTAAGGAAGAGCAGGCTCCCCAGAACAAGATTA
CAGTTGTTGGGGTTGGTGTCTGTTGGCATGGCTTGTGCCATCAGTATCTTAATGAAGGACTTGGCGGATGA
GCTTGCCTTGTGACGTCATGGAAGACAACTCAAGGGCGAGATGATGGATCTCCAGCATGGCAGCCTC
TTCCTTAAACACCAAAAATTGTCTCCAGCAAAGACTACTGTGTAAGTGGAACTCCAAGCTGGTCATTA
TCACCGCGGGGGCCCGTCAGCAAGAGGGGGAGAGCCGGCTCAACCTGGTCCAGCGAAACGTGAACATCTT
CAAGTTCATCATTCCCAACATTGTCAAGTACAGTCCACACTGCAAGCTGCTGATCGTCTCCAATCCAGTG
GATATCTTGACCTACGTGGCTTGGAAAATCAGTGGCTTTCCCAAAAACCGAGTAATTGGAAGTGGTTGCA
ATCTGGATTACAGCGCGGTTCCGTTACCTGATGGGAGAGAGGCTGGGGGTTACGCGCTGAGCTGTACCGG
CTGGGTCTGGGAGAACATGGCGACTCCAGTGTGCCTGTGTGGAGTGGTGTGAATGTTGCCGGCCTCTCC
CTGAAGTCTCTTAACCCAGAAGTGGGACTGACGAGCAAGGAGCAGTGGAAAGGAGTTACAAGCAGG
TGGTGGACAGTGCCTACGAGGTGATCAAGCTGAAAGGTTACACATCCTGGGCCATTGGCCTCTGTGTC
AGACTTGGCTGAGAGCATAATGAAGAACCTTAGCGGGTGCATCCCATTTCCACCATGATTAAGGGTCTC
TATGGAATCAATGAGGATGTCTTCTCAGTGTCCCATGTATCCTGGGACAAAATGGAATCTCGGATGTTG
TGAAGGTGACACTGACTCCTGAGGAAGAGGCCCGCCTGAAGAAGAGCGCAGACACCCCTCTGGGGAATCCA
GAAGGAGCTGCAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204898 representing NM_010699
 Red=Cloning site Green=Tags(s)

MATLKDQLIVNLLKEEQAPQNKITVVGVGAVGMACAISILMKDLADELALVDVMDKLGEMMDLQHGSL
 FLKTPKIVSSKDYCVTANSKLVIIITAGARQQEGESRLNLVQRNVNIFKFIIPNIVKYSPHCKLLIVSNPV
 DILTYVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLGVHALSCHGWVLGEHGDSSVPVWSGVNVAGVS
 LKSLNPELGTADAKEQWKEVHKQVVD SAYEVIKLGKGYT SWAIGLSVADLAESIMKNLRRVHPISTMIKGL
 YGINEDVFLSVPCILQNGISDVVKVTLTPEEEARLKK SADTLWGIQKELQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010699

ORF Size: 996 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_010699.2](#)

RefSeq Size: 1681 bp

RefSeq ORF: 999 bp

Locus ID: 16828

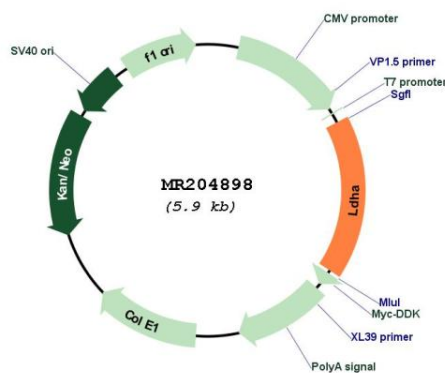
UniProt ID: [P06151](#)

Cytogenetics: 7 30.6 cM

MW: 36.9 kDa

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]

Product images:



Circular map for MR204898