

Product datasheet for **MC208873**

Ldha (NM_001136069) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ldha (NM_001136069) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ldha
Synonyms: l7; l7R2; LDH; Ldh-; Ldh1; Ldhm
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208873 representing NM_001136069
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGTAAGTCTCAGGCGGCTACACGTACACGGAGACCTCGGTATTATTTTTCCATTTCAAGGTCTCAA
AAGATTCAAAGTCCAAGATGGCAACCTCAAGGACCAGCTGATTGTGAATCTTCTTAAGGAAGAGCAGGC
TCCCCAGAACAAGATTACAGTTGTTGGGGTTGGTCTGTTGGCATGGCTTGTGCCATCAGTATCTTAATG
AAGGACTTGGCGGATGAGCTTGCCCTTGTGACGTCATGGAAGACAACTCAAGGGCAGATGATGGATC
TCCAGCATGGCAGCCTCTTCTTAAAAACACAAAAATTGTCTCCAGCAAAGACTACTGTGTAACCTGCGAA
CTCCAAGCTGGTCATTATCACCGCGGGGGCCCGTCAGCAAGAGGGGGAGAGCCGGCTCAACCTGGTCCAG
CGAAACGTGAACATCTTCAAGTTCATCATTCCCAACATTGTCAAGTACAGTCCACACTGCAAGCTGCTGA
TCGTCTCCAATCCAGTGGATATCTTGACCTACGTGGCTTGGAAAATCAGTGGCTTTCCAAAAACCGAGT
AATTGGAAGTGGTTGCAATCTGGATTACGCGCGGTTCCGTTACCTGATGGGAGAGAGGCTGGGGGTTAC
GCGCTGAGCTGTACGGCTGGTCTGGGAGAACATGGCGACTCCAGTGTGCTGTGGAGTGGTGA
ATGTTGCCGGCTCTCCCTGAAGTCTTAAACCCAGAACTGGGCACTGACGCAGACAAGGAGCAGTGGAA
GGAGGTTACAAGCAGGTGGTGGACAGTGCCTACGAGGTGATCAAGCTGAAAGGTTACACATCCTGGGCC
ATTGGCCTCTCTGTGGCAGACTTGGCTGAGAGCATAATGAAGAACCCTTAGCGGGTGCATCCCATTTC
CCATGATTAAGGGTCTCTATGGAATCAATGAGGATGTCTTCTCAGTGTCCCATGTATCCTGGGACAAAA
TGAATCTCGGATGTTGTGAAGGTGACACTGACTCCTGAGGAAGAGGCCCGCCTGAAGAAGAGCGCAGAC
ACCCTCTGGGGAATCCAGAAGGAGCTGCAGTTC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001136069



Insert Size:	1086 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:	<u>NM_001136069.2, NP_001129541.2</u>
RefSeq Size:	1854 bp
RefSeq ORF:	1086 bp
Locus ID:	16828
Cytogenetics:	7 30.6 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate 5' exon that results in a distinct 5' UTR and translation initiation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a longer N-terminus compared to isoform 1.</p>