

Product datasheet for **MC226635**

Ldhb (NM_001302765) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ldhb (NM_001302765) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ldhb
Synonyms: A1790582; H-Ld; H-Ldh; Ldh-; Ldh-2; LDH-B; LDH-H; Ldh2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226635 representing NM_001302765
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACCCTTAAGGAGAAGCTCATTGCGTCCGTTGCAGATGATGAGGCTGCCGTCCGAACAACAAGA
 TCACTGTAGTGGCGTTGGACAAGTGGGTATGGCATGTGCCATCAGCATTCTGGGAAAGTCTCTGGCTGA
 TGAACCTGCCCTGGTGGATGTGTTGGAAGACAAGCTCAAAGGAGAGATGATGGACCTGCAGCACGGGAGC
 TTGTTCCCTCCAGACTCCGAAAATTGTGGCCGATAAAGATTACTCTGTGACAGCCAACCTAAGATTGTGG
 TGGTGACGGCAGGAGTCCGCCAGCAGGAGGGGGAGAGTCCGGCTCAACCTGGTGCAGAGAAATGTCAACGT
 GTTCAAGTTATCATTCCCTCAGATCGTCAAGTACAGCCCTGACTGCACCATCATCGTGGTTTCCAACCCA
 GTGGATATTCTGACTTACGTACCTGGAAGTACAGCGGGCTACCTAAGCACCGTGTGATTGGAAGCGGAT
 GCAATCTGGATTCTGCTCGATTCCGCTACCTCATGGCAGAGAAGCTTGGCATTATCCCAGCAGCTGCCA
 CGGATGGATCCTGGGCGAGCATGGAGACTCCAGTGTGGCTGTGTGGAGCGGGTGAATGTGGCAGGAGTC
 TCCCTCCAGGAAGTGAATCCAGAAATGGGACAGACAATGACAGTGAGAACTGGAAGGAGGTGCATAAGA
 TGGTGGTGGACAGGGAATGTACGGCATTGAGAATGAAGTCTTCCCTCAGTCTCCCGTGCATCTCAATGCT
 CGGGGGC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001302765
Insert Size: 780 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001302765.1</u> , <u>NP_001289694.1</u>
RefSeq Size:	1214 bp
RefSeq ORF:	780 bp
Locus ID:	16832
UniProt ID:	<u>P16125</u>
Cytogenetics:	6 74.17 cM
Gene Summary:	<p>This gene encodes the B subunit of lactate dehydrogenase enzyme, which catalyzes the interconversion of pyruvate and lactate with concomitant interconversion of NADH and NAD⁺ in a post-glycolysis process. Alternatively spliced transcript variants have also been found for this gene. Recent studies have shown that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. Pseudogenes have been identified on chromosomes 1 and 19. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (2) lacks an exon in the 3' coding region, which results in a frameshift and a different 3' UTR compared to variant 1. The encoded isoform (2) is shorter with a distinct C-terminus compared to isoform Ldhb.</p>