

Product datasheet for **RC225375**

LDHA (NM_001135239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDHA (NM_001135239) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LDHA
Synonyms:	GSD11; HEL-S-133P; LDHM; PIG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225375 representing NM_001135239 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAACTCTAAAGGATCAGCTGATTTATAATCTTCTAAAGGAAGAACAGACCCCCAGAATAAGATTA
CAGTTGTTGGGGTTGGTGTCTGTTGGCATGGCCTGTGCCATCAGTATCTTAATGAAGGACTTGGCAGATGA
ACTTGCTCTTGTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGGATCTCCAACATGGCAGCCTT
TTCCTTAGAACACCAAAGATTGTCTCTGGCAAAGTGGATATCTTGACCTACGTGGCTTGAAGATAAGTG
GTTTTCCAAAAACCGTGTATTGGAAGCGGTTGCAATCTGGATTCAGCCCGATTCCGTTACCTAATGGG
GGAAAGGCTGGGAGTTCACCCATTAAGCTGTATGGGTGGGTCCCTGGGGAACATGGAGATTCCAGTGTG
CCTGTATGGAGTGAATGAATGTTGCTGGTGTCTCTCTGAAGACTCTGCACCCAGATTTAGGGACTGATA
AAGATAAGGAACAGTGGAAAGAGGTTCAACAAGCAGGTGGTTGAGAGTGCTTATGAGGTGATCAAACCTCAA
AGGCTACACATCCTGGGCTATTGGACTCTCTGTAGCAGATTTGGCAGAGAGTATAATGAAGAATCTTAGG
CGGGTGCACCCAGTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCTTCCCTTAGTGTT
CTTGCATTTTGGGACAGAATGGAATCTCAGACCTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCG
TTTGAAGAAGAGTGCAGATACACTTTGGGGATCCAAAAGGAGCTGCAATTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225375 representing NM_001135239
Red=Cloning site Green=Tags(s)

MATLKDQLIYNLLKKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLGEMMDLQHGSL
 FLRTPKIVSGKVDILTYVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLEGEHDSSV
 PVWSGMNVAGVSLKTLHPDLGTDKDKQWKEVHKQVVEVSAVEYIKLKGYSWAIGLSVADLAESIMKNLR
 RVHPVSTMIKGLYGIKDDVFLSVPCILGQNGISDLVKVTLTSEEEARLKKSadTLWGIQKELQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001135239

ORF Size: 822 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_001135239.1](#), [NP_001128711.1](#)

RefSeq ORF: 825 bp

Locus ID: 3939

UniProt ID: [P00338](#)

Cytogenetics: 11p15.1

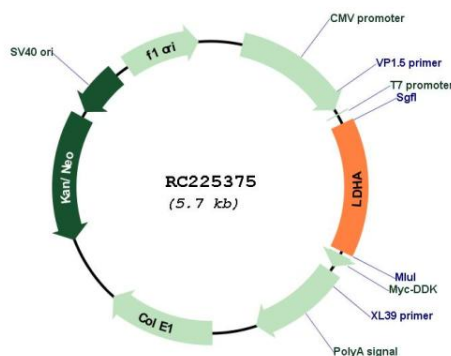
Protein Families: Druggable Genome

Protein Pathways: Cysteine and methionine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

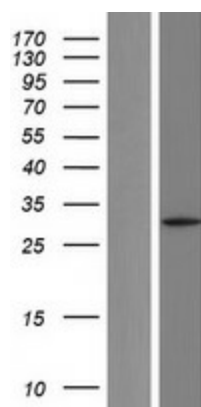
MW: 30 kDa

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 exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of this gene. [provided by RefSeq, Sep 2008]

Product images:



Circular map for RC225375



Western blot validation of overexpression lysate (Cat# [LY427601]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225375 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).