

Product datasheet for **RG209516**

Lactate Dehydrogenase C (LDHC) (NM_002301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lactate Dehydrogenase C (LDHC) (NM_002301) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lactate Dehydrogenase C
Synonyms:	CT32; LDH3; LDHX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209516 representing NM_002301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAACTGTCAAGGAGCAGCTAATTGAGAAGCTAATTGAGGATGATGAAAACCTCCAGTGTAATAATTA
CTATTGTTGGAAGTGGTCCGTAGGCATGGCTTGTGCTATTAGTATCTTACTGAAGGATTTGGCTGATGA
ACTTGCCCTTGTGATGTTGCATTGGACAACTGAAGGGAGAAATGATGGATCTTCAGCATGGCAGTCTT
TTCTTTAGTACTTCAAAGATTACTTCTGAAAAGATTACAGTGTATCTGAAAACCTCCAGAATAGTTATTG
TCACAGCAGGTGCAAGGCAGCAGGAGGGAGAAAACCTCGCCTTGGCCTGGTCCAACGTAATGTGGCTATAAT
GAAATCAATCATTCTGCCATAGTCCATTATAGTCCTGATTGTAAAATTCTTGTGTTTCAAATCCAGTG
GATATTTTGCATATATAGTCTGGAAGATAAGTGGCTTACCTGTAACCTCGTGAATTGGAAGTGGTTGTA
ATCTAGACTCTGCCGTTTCCGTTACCTAATTGGAGAAAAGTTGGGTGTCCACCCACAAGCTGCCATGG
TTGGATTATTGGAGAACATGGTATTCTAGTGTGCCCTTATGGAGTGGGGTGAATGTTGCTGGTGTGCT
CTGAAGACTCTGGACCCTAAATTAGGAACGATTACAGATAAGGAACACTGGAAAAATATCCATAAACAAG
TTATTCAAAGTGCCTATGAAATTATCAAGCTGAAGGGGTATACCTCTGGGCTATTGGACTGTCTGTGAT
GGATCTGGTAGGATCCATTTTAAAAATCTTAGGAGAGTGCACCCAGTTTCCACCATGGTTAAGGGATTA
TATGGAATAAAAGAAGAAGTCTTTCTCAGTATCCCTTGTGTCTTGGGGCGGAATGGTGTCTCAGATGTTG
TGAAAATTAACCTTGAATTCTGAGGAGGAGGCCCTTTTCAAGAAGAGTGCAGAAACACTTTTGAATATTCA
AAAGGATCTAATATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209516 representing NM_002301
 Red=Cloning site Green=Tags(s)

MSTVKEQLIEKLIEDDENSQCKITIVGTGAVGMACAISILLKDLADELALVDVALDKLKGEEMDLQHGSL
 FFSTSKITSGKDYSVSANSRIVIVTAGARQQEGETRLALVQRNVAIMKSIIPAIVHYS PDCKILVSNPV
 DILTYIVWKISGLPVTRVIGSGCNLDSARFRYLIGEKLGVHPTSCHGWIIGEHGDSVPLWSGVNVAGVA
 LKTLDPKLGTDSDKEHWKNIHKQVIQSAYEIIKLGKGYTSWAIGLSVMDLVGSILKNLRRVHPVSTMVKG
 YGIKEELFLSIPCVLGRNGVSDVVKINLNSEEEALFKKSAETLWNIQKDLIF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002301

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_002301.4](#)

RefSeq Size: 1278 bp

RefSeq ORF: 999 bp

Locus ID: 3948

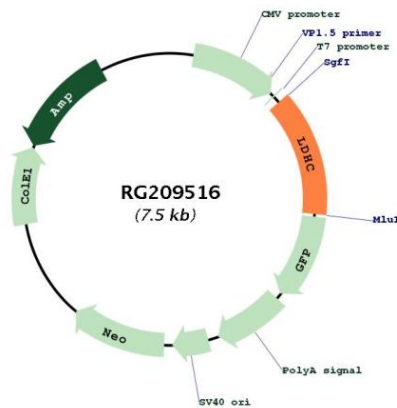
UniProt ID: [P07864](#)

Cytogenetics: 11p15.1

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

Gene Summary: Lactate dehydrogenase C catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. LDHC is testis-specific and belongs to the lactate dehydrogenase family. Two transcript variants have been detected which differ in the 5' untranslated region. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209516