

Product datasheet for **SC303172**

Lactate Dehydrogenase C (LDHC) (NM_002301) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lactate Dehydrogenase C (LDHC) (NM_002301) Human Untagged Clone
Tag: Tag Free
Symbol: Lactate Dehydrogenase C
Synonyms: CT32; LDH3; LDHX
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002301 edited
 CGTCGACGGGCTTAGCGCCTCAACTGTCGTTGGTGTATTTTTCTGGTGCACTTCTGTGC
 CTTCCCTCAAAGGTGGTGCCTTTGCCCTGTGGGCATCTGTACTGATTGCGCCAAGCAAA
 GCATTTGTTCTCCAAATGTCAACTGTCAAGGAGCAGCTAATTGAGAAGCTAATTGAGGAT
 GATGAAAACCTCCCAAGTGTAAAATTAATGTTGAACTGGTGCCTAGGCATGGCTTGT
 GCTATTAGTATCTTACTGAAGGATTTGGCTGATGAACTGCCCTTGTGATGTTGCATTG
 GACAACTGAAGGGAGAAATGATGGATCTTCAGCATGGCAGTCTTTCTTAGTACTTCA
 AAGATTACTTCTGAAAAGATTACAGTGTATCTGCAAACCTCAGAATAGTTATTGCACA
 GCAGGTGCAAGGCAGCAGGAGGGAGAACTCGCCTTGCCTGGTCCAACGTAATGTGGCT
 ATAATGAAATCAATCATTCTGCCATAGTCCATTATAGTCCTGATTGTAATTTCTTGT
 GTTTCAAATCCAGTGGATATTTTGACATATATAGTCTGGAAGATAAGTGGCTTACCTGTA
 ACTCGTGAATTGGAAGTGGTGTAACTAGACTCTGCCGTTTCCGTTACCTAATTGGA
 GAAAAGTTGGGTGTCCACCCACAAAGCTGCCATGGTGGATTATTGGAGAACATGGTGAT
 TCTAGTGTGCCCTTATGGAGTGGGGTGAATGTTGCTGGTGTGCTCTGAAGACTCTGGAC
 CCTAAATTAGGAACGGATTACAGTAAGGAACACTGGAAAAATATCCATAAACAAGTTATT
 CAAAGTGCCTATGAAATATCAAGCTGAAGGGGTATACCTCTGGGCTATTGGACTGTCT
 GTGATGGATCTGGTAGGATCCATTTGAAAAATCTTAGGAGAGTGCACCCAGTTTCCACC
 ATGGTTAAGGGATTATATGGAATAAAGAAGAAGTCTTTCTCAGTATCCCTTGTGTCTTG
 GGGCGGAATGGTGTCTCAGATGTTGTGAAAATTAACCTGAATCTGAGGAGGAGGCCCTT
 TTCAAGAAGAGTGCAGAAACACTTTGGAATATTCAAAGGATCTAATATTTTAAATTA
 GCCTTCTAATGTTCCACTGTTTGGAGAACAAGATAGCAGGCTGTGATTTTAAATTTT
 GAAAGTATTTTCAATTTGATCTTTAAAAAATAAAAACAAATTGGAGACCTGTGAAAAAAA
 AA
 AAAAAAAAAA

Restriction Sites: Please inquire



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ACCN:	NM_002301
Insert Size:	1300 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_002301.2.
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_002301.2</u> , <u>NP_002292.1</u>
RefSeq Size:	1278 bp
RefSeq ORF:	999 bp
Locus ID:	3948
UniProt ID:	<u>P07864</u>
Cytogenetics:	11p15.1
Protein Pathways:	Cysteine and methionine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>