

Product datasheet for **RC227150**

LDHAL6A (NM_001144071) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDHAL6A (NM_001144071) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LDHAL6A
Synonyms:	LDH6A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227150 representing NM_001144071 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACTATCAAGAGTGAACCTATTAAGAATTCGCGGAAGAGGAGGCCATTCACACAATAAGATCT
CCATTGTAGGAAGTGGATCGGTTGGTGTGGCTTGTGCTATCAGCATCTTATTAAGGTTTGAGTGATGA
ACTTGCCTTGTGGATGTTGATGAAGGCAAACTGAAGGGTGAGACAATGGATCTCAACATGGCAGCCCT
TTTATGAAAATGCCAAATATTGTCTCCAGCAAAGATTACCTGGTCACTGCAAACCTCAATCTAGTGATTA
TCACAGCAGGTGCAGCCAGAAAAAGGAGAAACACGCCTTGATTTAGTCCAGCGAAATGTATCCATCTT
TAAATTAATGATCCCAATATTACCCAGTACAGTCCTCACTGCAAACCTGTTATTGTTACTAATCCAGTG
GATATCTTAACCTATGTAGCCTGGAAGTTGAGTGGATTTCCAAAAACCGTGTATTGGAAGTGGTTGTA
ATCTGGACTCTGCTCGTTTCGTTACTTTATTGGGCAAAGGCTTGGCATCCACTCTGAAAGCTGTATGG
GCTGATCCTTGGAGAGCATGGCGACTCAAGTGTTCCTGTGTGGAGTGGTGTGAACATTGCTGGCGTCCCT
CTGAAGGATCTGAACCCAGATATAGGAAGTATAAAGATCCTGAGCAGTGGGAAAATGTCCACAAAAAG
TGATTTCCAGTGGCTATGAGATGGTCAAATGAAAGGTTATACTTCTTGGGGCATTAGCCTATCTGTAGC
TGATTTAACAGAAAGTATTTTGAAGAATCTTAGGAGAGTGCATCCAGTTTCTACCCTAAGTAAGGGCCTC
TATGGAATAAATGAAGACATATTCCTTAGTGTCCATGTATCCTGGGAGAGAATGGTATCACAGACCTCA
TAAAAGTAAAAGTAACTGACTCTTGAAGAGGAGGCCTGCTTGCAAAGAGTGCAGAAACACTTTGGGAAATTC
GAAGGAGCTCAAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227150 representing NM_001144071
Red=Cloning site Green=Tags(s)

MATIKSELIKNFAEEEAIIHNNKISIVGTGSVGVACAI SILLKGLSDELVLVDVDEGKLGKETMDLQHGSP
 FMKMPNIVSSKDYLVTANSLVIITAGARQKKGETRLDLVQRNVSIFKLMIPNITQYSPHCKLLIVTNPV
 DILTYVAVKLSGFPKNRVIGSGCNLDSARFRYF IGQRLGIHSESCHGLILGEHGDSSVPVWVSGVNIAGVP
 LKDLNPDIGTDKDPQWENVHKKV I SSGYEMVKMKGYTSWGISLSVADL TESILKNLRRVHPVSTLSKGL
 YGINEDIFLSVPCILGENGITDLIKVKLTLEEEACLQKSAETLWEIQKELKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8022_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_001144071

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_001144071.2](#)

RefSeq Size: 1990 bp

RefSeq ORF: 999 bp

Locus ID: 160287

UniProt ID: [Q6ZMR3](#)

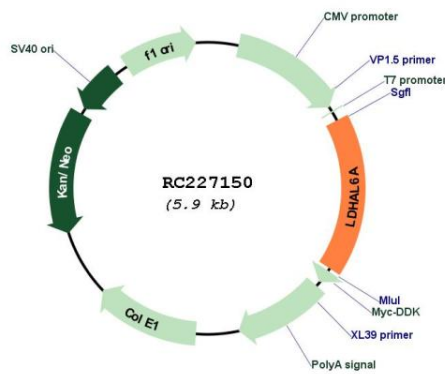
Cytogenetics: 11p15.1

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

MW: 36.5 kDa

Gene Summary: Displays an lactate dehydrogenase activity. Significantly increases the transcriptional activity of JUN, when overexpressed.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227150