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Product datasheet for RC223117

LDB3 (NM_001080115) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDB3 (NM_001080115) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LDB3
Synonyms:	CMD1C; CMH24; CMPD3; CYPHER; LDB3Z1; LDB3Z4; LVNC3; MFM4; ORACLE; PDLIM6; ZASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC223117 representing NM_001080115
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTACAGTGTGACCCTGACTGGGCCCGGGCCCTGGGGCTTCCGTCTGCAGGGGGGCAAGGACTTCA
ACATGCCCCTCACTATCTCCCGGATCACACCAGGCAGCAAGGCAGCCCAGTCCCAGCTCAGCCAGGGTGA
CCTCGTGGTGGCCATTGACGGCGTCAACACAGACACCATGACCCACCTGGAAGCCCAGAACAAGATCAAG
TCTGCCAGCTACAACTTGAGCCTCACCCTGCAGAAATCAAAGCGTCCCATTCCCATCTCCACGACAGCAC
CTCCAGTCCAGACCCCTCTGCCGGTGATCCCTCACCAGAAGGACCCCGCTCTGGACACGAACGGCAGCCT
GGTGGCACCCAGCCCCAGCCCTGAGGCGAGGGCCAGCCCAGGCACCCCAGGCACCCCGGAGCTCAGGCCC
ACCTTTAGCCCTGCCTTCTCCCGGCCCTCCGCCTTCTCCTCACTCGCCGAGGCCTCTGACCCTGGCCCTC
CGCGGGCCAGCCTGAGGGCCAAGACCAGCCCAGAGGGGGCCCGGGACCTACTCGGCCCAAAAGCCCTGCC
GGGCTCGAGCCAGCCGAGGCAATATAACAACCCCATTGGCCTGTACTCGGCAGAGACCCTGAGGGAGATG
GCTCAGATGTACCAGATGAGCCTCCGAGGGAAGGCCTCGGGTGTCGGACTCCCAGGAGGGAGCCTCCCTA
TTAAGGACCTTGCCGTAGACAGCGCCTCTCCCGTCTACCAGGCTGTGATTAAGAGCCAGAACAAGCCAGA
AGATGAGGCTGACGAGTGGGCACGCCGTTCCTCCAACCTGCAGTCTCGCTCCTTCCGCATCCTGGCCCAG
ATGACGGGGACAGAATTCATGCAAGACCCTGATGAAGAAGCTCTGCGAAGGTCAAGGGAAAGGTTTGAAA
CGGAACGTAACAGCCCACGTTTTGCCAAATTGCGCAACTGGCACCATGGCCTTTCAGCCCAAATCCTTAA
TGTTAAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC223117 representing NM_001080115
Red=Cloning site Green=Tags(s)

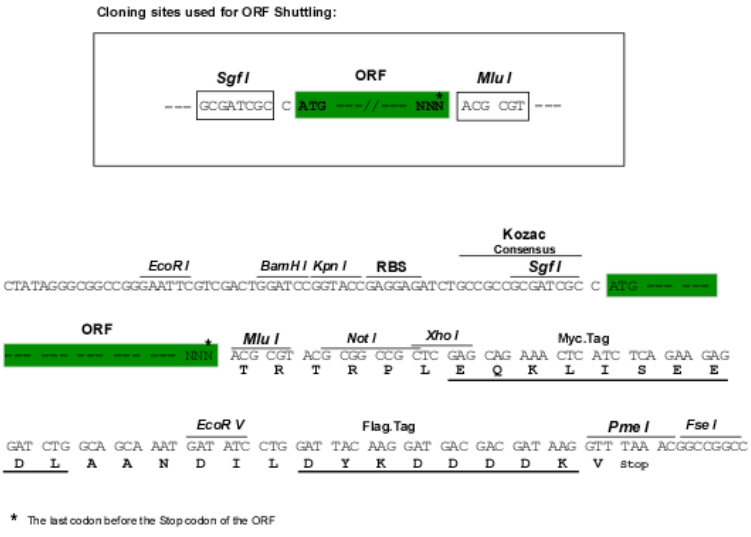
MSYSVTLTGPGPWGFRLQGGKDFNMPLTISRITPGSKAAQSQLSQGDLVVAIDGVNTDTMTHLEAQNKIK
SASYNLSLTLQKSKRPIPISTTAPPVQTPLPVIPHQKDPALDTNGSLVAPSPSPEARASPGTPGTPELRP
TFSPAFSRPSAFSSLAEASDPGPPRASLRAKTSPEGARDLLGPKALPGSSQPRQYNNPIGLYSAETLREM
AQMYQMSLRGKASGVGLPGGSLPIKDLAVDSASPVYQAVIKSQNKPEDEADEWARRSSNLQSRSFRILAQ
MTGTEFMQDPDEEALRRSRERFETERNSPRFAKLRNWHHGLSAQILNVKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080115

ORF Size: 990 bp

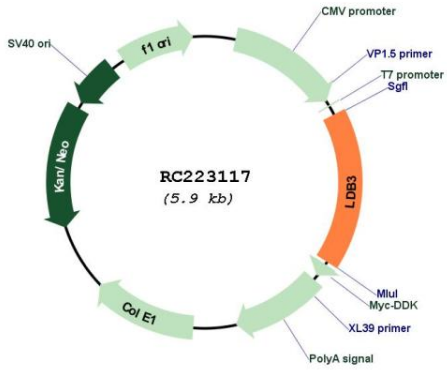
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

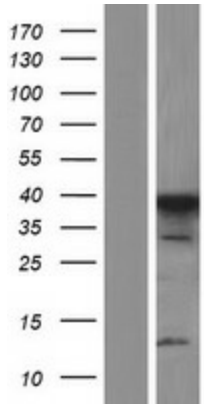
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001080115.2
RefSeq Size:	1695 bp
RefSeq ORF:	993 bp
Locus ID:	11155
UniProt ID:	O75112
Cytogenetics:	10q23.2
MW:	35.5 kDa
Gene Summary:	This gene encodes a PDZ domain-containing protein. PDZ motifs are modular protein-protein interaction domains consisting of 80-120 amino acid residues. PDZ domain-containing proteins interact with each other in cytoskeletal assembly or with other proteins involved in targeting and clustering of membrane proteins. The protein encoded by this gene interacts with alpha-actinin-2 through its N-terminal PDZ domain and with protein kinase C via its C-terminal LIM domains. The LIM domain is a cysteine-rich motif defined by 50-60 amino acids containing two zinc-binding modules. This protein also interacts with all three members of the myozenin family. Mutations in this gene have been associated with myofibrillar myopathy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding different isoforms have been identified; all isoforms have N-terminal PDZ domains while only longer isoforms (1, 2 and 5) have C-terminal LIM domains. [provided by RefSeq, Jan 2010]

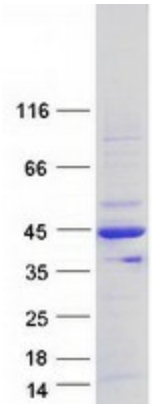
Product images:



Circular map for RC223117



Western blot validation of overexpression lysate (Cat# [LY421586]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223117 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LDB3 protein (Cat# [TP323117]). The protein was produced from HEK293T cells transfected with LDB3 cDNA clone (Cat# RC223117) using MegaTran 2.0 (Cat# [TT210002]).