

## Product datasheet for RC229998

### LDB3 (NM\_001171611) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LDB3 (NM_001171611) 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:	>RC229998 representing NM_001171611 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTACAGTGTGACCCTGACTGGGCCCGGCCCTGGGGCTTCGGTCTGCAGGGGGCAAGGACTTCA  
ACATGCCCTCACTATCTCCGGATCACACCAGGCAGCAAGGCAGCCAGTCCCAGCTCAGCCAGGGTGA  
CCTCGTGGTGGCCATTGACGGCGTCAACACAGACACCATGACCCACCTGGAAGCCAGAACAAGATCAAG  
TCTGCCAGCTACAACCTGAGCCTCACCTGCAGAAATCAAAGCGTCCCATTCCCATCTCCACGACAGCAC  
CTCCAGTCCAGACCCCTCTGCCGTGATCCCTACCAGAAGGACCCCGCTCTGGACACGAACGGCAGCCT  
GGTGGCACCCAGCCCAGCCCTGAGGCGAGGGCCAGCCAGGCACCCAGGCACCCGGAGCTCAGGCC  
ACCTTTAGCCCTGCCTTCTCCCGCCCTCCGCCTTCTCCTCACTCGCCGAGGCCTCTGACCTGGCCCTC  
CGCGGGCCAGCCTGAGGGCCAAGACCAGCCAGAGGGGGCCCGGGACCTACTCGGCCAAAAGCCCTGCC  
GGGCTCGAGCCAGCCGAGGCAATATAACAACCCATTGGCCTGTACTCGGCAGAGACCCTGAGGGAGATG  
GCTCAGATGTACCAGATGAGCCTCCGAGGGAAGGCCTCGGGTGTGCGACTCCCAGGAGGCCGACTACC  
AGGAACGCTTCAACCCAGTGCCTGAAGGACTCGGCCCTGTCCACCCACAAGCCATCGAGGTGAAGGG  
GCTGGGCGCAAGGCCACCATCATCCATGCGCAGTACAACACGCCCATCAGCATGTATCCAGGATGCC  
ATCATGGATGCCATCGCTGGGCAGGCCAAGCCAAAGGCAGTGACTTCAGTGGGAGCCTCCCTATTAAGG  
ACCTTGCCGTAGACAGCGCCTCTCCCGTCTACCAGGCTGTGATTAAAGAGCCAGAACAAGCCAGAAGATGA  
GGCTGACGAGTGGGCACGCCGTTCTCCAACTGCAGTCTCGCTCCTCCGCATCCTGGCCAGATGACG  
GGGACAGAATTATGCAAGACCCTGATGAAGAAGCTCTGCGAAGGTCAAGGGAAAGGTTTAAACGGAAC  
GTAACAGCCACGTTTTGCCAAATTGCGCAACTGGCACCATGGCCTTTCAGCCAAATCCTAATGTTAA  
AAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC229998 representing NM\_001171611  
Red=Cloning site Green=Tags(s)

MSYSVTLTGPWPWFRLQGGKDFNMPLTISRITPGSKAAQSQLSQGDLVVAIDGVNTDTMTHLEAQNKIK  
 SASYNLSLTLQSKRPIPISTTAPPVQTPLPVIPHQKDPALDTNGSLVAPSPSPEARASPGTPELRLP  
 TFSFAFSRPSAFSSLAESDPGPPRASLRAKTSPEGARDLLGPKALPGSSQPRQYNNPIGLYSAETLREM  
 AQMYQMSLRGKASGVGLPGGADYQERFNPSALKDSALSTHKPIEVKGLGGKATIIHAQYNTPI SMYSQDA  
 IMDAIAGQAQAQGSDFSGSLPIKDLAVDSAPVYQAVIKSQNKPEDEADEWARRSSNLQSRFRILAQMT  
 GTEFMQDPDEEALRRSRERFETERNSPRFAKLRNWHHGLSAQILNVKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8057\\_b12.zip](https://cdn.origene.com/chromatograms/mk8057_b12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001171611

**ORF Size:** 1194 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\\_001171611.2](#)

**RefSeq ORF:** 1197 bp

**Locus ID:** 11155

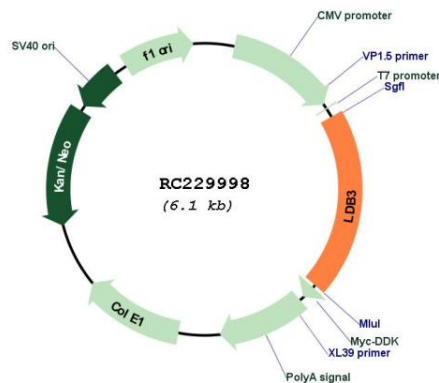
**UniProt ID:** [O75112](#)

**Cytogenetics:** 10q23.2

**MW:** 43.3 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 RC229998