

## Product datasheet for **RC230465**

### LDB3 (NM\_001171610) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LDB3 (NM_001171610) 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)



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**ORF Nucleotide Sequence:**

>RC230465 representing NM\_001171610  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTTACAGTGTGACCCTGACTGGGCCCGGCCCTGGGGCTTCGGTCTGCAGGGGGCAAGACTTCA  
 ACATGCCCTCACTATCTCCCGGATCACACCAGGCAGCAAGGCAGCCAGTCCCAGCTCAGCCAGGGTGA  
 CCTCGTGGTGGCCATTGACGGCGTCAACACAGACACCATGACCCACCTGGAAGCCAGAACAAGATCAAG  
 TCTGCCAGCTACAATTGAGCCTCACCTGCAGAAATCAAAGCGTCCCATTCCCATCTCCACGACAGCAC  
 CTCCAGTCCAGACCCCTCTGCCGGTGATCCCTCACCAGAAGGACCCCGCTCTGGACACGAACGGCAGCCT  
 GGTGGCACCCAGCCAGCCCTGAGGGCAGGGCCAGCCAGGCACCCAGGCACCCCGGAGCTCAGGCC  
 ACCTTTAGCCCTGCCTTCTCCGGCCCTCCGCCTTCTCCTCACTCGCCGAGGCCTCTGACCTGGCCCTC  
 CGCGGGCCAGCCTGAGGGCCAAGACCAGCCAGAGGGGGCCGGGACCTACTCGGCCAAAAGCCCTGCC  
 GGGCTCGAGCCAGCCGAGGCAATAAACAACCCATTGGCTGTACTCGGCAGAGACCCTGAGGGAGATG  
 GCTCAGATGTACCAGATGAGCCTCCGAGGGAAGGCCTCGGGTGTGGACTCCAGGAGGCCCGACTACC  
 AGGAACGCTTCAACCCAGTGCCCTGAAGGACTCGGCCCTGTCCACCCACAAGCCATCGAGGTGAAGGG  
 GCTGGGGGCAAGGCCACCATCATCCATGCGCAGTACAACACGCCCATCAGCATGTATCCAGGATGCC  
 ATCATGGATGCCATCGCTGGGCAGGCCAAGCCCAAGGCAGTGACTTCAGTGGGAGCCTCCCTATTAAGG  
 ACCTTGCCGTAGACAGCGCCTCTCCCGTCTACCAGGCTGTGATTAAGAGCCAGAACAAGCCAGAAGATGA  
 GGCTGACGAGTGGGCACGCCGTTCTCCAACTGCAGTCTCGTCTCTCCGCATCTGGCCAGATGACG  
 GGGACAGAATTATGCAAGACCCGTGATGAAGAAGCTCTGCGAAGGTCAAGGCCCCAGGCCCTTCCCTACA  
 GCCCCAGTGGCCGCTTTCAGCACCTGCCACCCACACCAGCTACAGTGAGGGCCCGCCGCTTCCCTGCA  
 ACCCAAGCCCGGGTGTCACTACTGCCAGCATCCGGCCTTCTGTCTACCAGCCAGTGCCTGCATCTACC  
 TACAGCCCGTCCCGAGGGCCAATTACAGTCCCACTCCCTACACCCCTCCCTGCCCTGCCTACACCC  
 CCTCCCTGCCCTGCCTACACCCCTCACCTGTCCACCTACACTCCATCCCCAGCACCAGCCTATAC  
 CCCCTCACCTGCCCCAACTATAACCTGCACCCTCGGTGGCCTACAGCGGGGGCCCTGCGGAGCCTGCC  
 AGCCGTCCACCCTGGGTGACAGATGATAGCTTCTCCAGAAGTTTGCCCGGGCAAGAGCACCACCTCCA  
 TCAGCAAGCAGACCCTGCCCGGGGAGGCCAGCCTACACCCAGCGGGTCTCAGGTGCCACCCTTGC  
 CAGGGGACCGTCCAGAGGGCTGAGCGATTCCAGCCAGCAGCCGACTCCACTCTGCGGTCACTGCAAC  
 AATGTCATCCGGGCCCCATTTCTGGTAGCCATGGGCCGTTCTTGGCACCTGAAGAGTTCACCTGTGCCT  
 ACTGCAAGACTTCCCTGGCAGATGTGTGCTTTGTGGAAGAGCAGAACAAGGTTTACTGTGAGCGATGTTA  
 TGAGCAATTCTTTGCCCGCTGTGTGCCAAGTGAACACCAAAATTATGGGGGAAGTAATGCATGCCTTG  
 AGACAGACATGGCACACCACCTGCTTCTGTGTGCGGCCTGCAAGAAGCCTTTTGGGAACAGCCTTTCC  
 ACATGGAAGACGGGGAGCCCTACTGCGAGAAAGACTACATCAATCTGTTACGACCAAGTGCCATGGCTG  
 CGATTTCCCGTGGAGGCTGGCGACAAGTTTATCGAAGCCCTGGGCCACACTTGGCACGACACCTGCTTC  
 ATTTGCGCAGTCTGCCATGTGAATCTGGAGGGCAGCCGTTCTACTCCAAGAAGGACAGACCCTGTGCA  
 AGAAGCACGCACACCATCAACTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230465 representing NM\_001171610  
Red=Cloning site Green=Tags(s)

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MSYSVTLTGPWPWFRLQGGKDFNMPLTISRITPGSKAAQSQLSQGDLVVAIDGVNTDTMTHLEAQNKIK
SASYNLSLTLQSKRPIPISTTAPPVQTPLPVIPHQKDPALDTNGSLVAPSPSPEARASPGTPTPELRP
TFSPAFSRPSAFSSLAESDPGPPRASLRAKTSPEGARDLLGPKALPGSSQPRQYNNPIGLYSAETLREM
AQMYQMSLRGKASGVGLPGGADYQERFNPSALKDSALSTHKPIEVKGLGGKATIIHAQYNTPIISMYSQDA
IMDAIAGQAQAQGSDFSGSLPIKDLAVDSASPVYQAVIKSQNKPEDEADEWARRSSNLQSRFRILAQMT
GTEFMQDPDEEALRRSRPQASSYSPAVAASSAPATHTSYSEGPAAPAPKPRVTTASIRPSVYQVPVAST
YSPSPGANYSPTPYTPSPAPAYTPSPAPAYTPSPVPTYTPSPAPAYTPSPAPNYNPAPSVAYSGGPAEPA
SRPPWVTDDSFQKFAPGKSTTSISKQTLPRGGPAYTPAGQVPLARGTVQRAERFPASSRTPLCGHCN
NVIRGPFVLVAMGRSWHPEEFTCA YCKTSLADVCFVEEQNNVYCERCYEQFFAPLCAKCNKIMGEVMHAL
RQTWHHTCFVCAACKKPFGNSLFHMEDGEPYCEKDYINLFFSTKCHGCDFFVEAGDKFIEALGHTWHHTCF
ICAVCHVNLEGQPFYKDRPLCKKHAHTINL
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001171610

**ORF Size:** 2196 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\\_001171610.2](#)

**RefSeq ORF:** 2199 bp

**Locus ID:** 11155

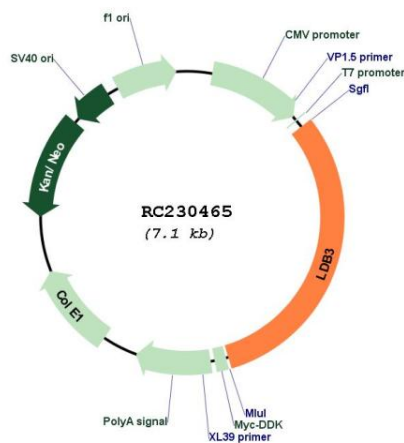
**UniProt ID:** [O75112](#)

**Cytogenetics:** 10q23.2

**MW:** 79 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 RC230465