

Product datasheet for **RC223063**

LDB3 (NM_007078) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDB3 (NM_007078) 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)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC223063 representing NM_007078
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTTACAGTGTGACCCTGACTGGGCCCGGCCCTGGGGCTTCGCTGCAGGGGGCAAGGACTTCA
 ACATGCCCTCACTATCTCCCGGATCACACCAGGCAGCAAGGCAGCCAGTCCCAGCTCAGCCAGGGTGA
 CCTCGTGGTGGCCATTGACGGCGTCAACACAGACACCATGACCCACCTGGAAGCCAGAACAAGATCAAG
 TCTGCCAGCTACAATTGAGCCTCACCTGCAGAAATCAAAGCGTCCCATTCCCATCTCCACGACAGCAC
 CTCCAGTCCAGACCCCTCTGCCGGTGATCCCTACCAGAAGGACCCCGCTCTGGACACGAACGGCAGCCT
 GGTGGCACCCAGCCAGCCCTGAGGCGAGGGCCAGCCAGGCACCCAGGCACCCCGGAGCTCAGGCC
 ACCTTTAGCCCTGCCTTCTCCGGCCCTCCGCCTTCTCCTCACTCGCCGAGGCCTCTGACCTGGCCCTC
 CGCGGGCCAGCCTGAGGGCCAAGACCAGCCAGAGGGGGCCGGGACCTACTCGGCCAAAAGCCCTGCC
 GGGCTCGAGCCAGCCGAGGCAATAAACAACCCATTGGCTGTACTCGGCAGAGACCCCTGAGGGAGATG
 GCTCAGATGTACCAGATGAGCCTCCGAGGGAAGGCCTCGGGTGTGCGACTCCAGGAGGGAGCCTCCCTA
 TTAAGGACCTTGCCGTAGACAGCGCCTCTCCCGTCTACCAGGCTGTGATTAAGAGCCAGAACAAGCCAGA
 AGATGAGGCTGACGAGTGGGCACGCCGTTCTCCAACCTGCAGTCTCGCTCCTCCGCATCTGGCCAG
 ATGACGGGGACAGAATTCATGCAAGACCCTGATGAAGAAGCTCTGCGAAGGTCAAGCACCCCTATTGAGC
 ATGCGCCGGTGTGACCAGCCAGGCCACCACCCCGCTGCTGCCCGCTTCTGCCAGCCACCTGCTGCTGC
 CTCTCCAGTGGCGTTCGCCACCCCTGGCCACAGCTGCTGCCACACTGCCATCGCCTCCGCCTCCACC
 ACAGCCCTGCTCAAGTCTCGCCAGCCAGCCAAAGGCCCCAGGCCTTCTCCTACAGCCCGCAGTGGCCG
 CCTCTTTCAGCACCTGCCACCCACACCAGCTACAGTGAGGGCCCGCCCGCCCTGCACCCAAAGCCCGGGT
 TGTCAACACTGCCAGCATCCGGCCTTCTGTCTACCAGCCAGTGCCTGCATCTACCTACAGCCCTCCCCA
 GGGGCCAATTACAGTCCCACTCCCTACACCCCTCCCTGCCCTGCCTACACCCCTCCCTGCCCTG
 CCTACACCCCTCACCTGTCCACCTACACTCCATCCCAAGCACCAGCCTATACCCCTCACCTGCCCC
 CAACTATAACCCTGCACCCTCGGTGGCCTACAGCGGGGGCCCTGCGGAGCCTGCCAGCCGTCCACCCTGG
 GTGACAGATGATAGCTTCTCCAGAAGTTTGGCCGGGCAAGAGCACCACCTCCATCAGCAAGCAGACCC
 TGCCCCGGGAGGCCAGCCTACACCCAGCGGTCTCAGGTGCCACCCTGCCAGGGGGACCGTCCA
 GAGGGCTGAGCGATTCCAGCCAGCAGCCGACTCCACTCTGCGGTCACTGCAACAATGTCATCCGGGGC
 CCATTTCTGGTAGCCATGGGCCGTTCTTGGCACCTGAAGAGTTCACCTGTGCCTACTGCAAGACTTCCC
 TGGCAGATGTGTCTTTGTGGAAGAGCAGAACAACGTTTACTGTGAGCGATGTTATGAGCAATTCTTTGC
 CCCGCTGTGTGCCAAGTGAACACCAAAATTATGGGGGAAGTAATGCATGCCTTGAGACAGACATGGCAC
 ACCACCTGCTTCGTCTGTGCGGCCTGCAAGAAGCCTTTTGGGAACAGCCTTCCACATGGAAGACGGGG
 AGCCCTACTGCGAGAAAGACTACATCAATCTGTTACAGACCAAGTCCATGGCTGCGATTCCCCGTGGA
 GGCTGGCACAAGTTTATCGAAGCCCTGGGCCACACTTGGCACGACACCTGCTTCATTTGCGCAGTCTGC
 CATGTGAATCTGGAGGGCAGCCGTTCTACTCAAAGAAGGACAGACCCCTGTGCAAGAAGCACGCACACA
 CCATCAACTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223063 representing NM_007078
Red=Cloning site Green=Tags(s)

```

MSYSVTLTGPWPWFRLQGGKDFNMPLTISRITPGSKAAQSQLSQGDLVVAIDGVNTDTMTHLEAQNKIK
SASYNLSLTLQSKRPIPISTTAPPVQTPLPVIPHQKDPALDTNGSLVAPSPSPEARASPGTPTPELRP
TFSPAFSRPSAFSSLAESDPGPPRASLRAKTSPEGARDLLGPKALPGSSQPRQYNNPIGLYSAETLREM
AQMYQMSLRGKASGVGLPGGSLPIKDLAVDSASPVYQAVIKSQNKPEDEADEWARRSSNLQSRFRILAQ
MTGTEFMQDPDEEALRRSSTPIEHAPVCTSQATTPLLPASAQPPAAASPSAASPLATAAAHTAIASAST
TAPASSPADSPRQASSYSPAVAASSAPATHTSYSEGPAAPAPKPRVTTASIRPSVYQVPVASTYSPSP
GANYSPTPYTPSPAPAYTPSPAPAYTPSPVPTYTPSPAPAYTPSPAPNYNPAPSVAYSGGPAEPASRPPW
VTDDSFQKQFAPGKSTTSISKQTLPRGGPAYTPAGPQVPLARGTVQRAERFPASSRTPLCGHCNNVIRG
PFLVAMGRSWHPEEFTCAYCKTSLADVCFVEEQNNVYCERCYEQFFAPLCAKCNKIMGEVMHALRQTWH
TTCFVCAACKKPFNSLFHMEDGEPYCEKDYINLFTKCHGCDPVEAGDKFIEALGHTWHDTCFICAVC
HVNLEGQPFYSKDRPLCKKHAHTINL
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007078

ORF Size: 2181 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_007078.3](#)

RefSeq Size: 5308 bp

RefSeq ORF: 2184 bp

Locus ID: 11155

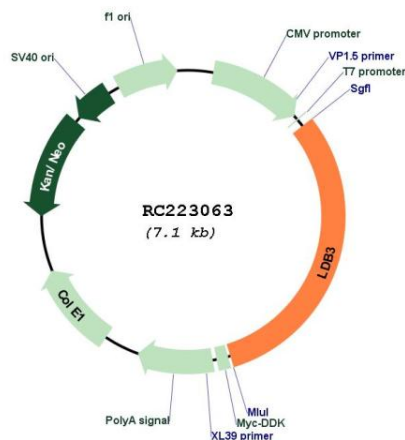
UniProt ID: [O75112](#)

Cytogenetics: 10q23.2

MW: 77.1 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 RC223063