

Product datasheet for **SC328636**

LDB3 (NM_001171611) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDB3 (NM_001171611) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>SC328636 representing NM_001171611. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTTCTTACAGTGTGACCTGACTGGGCCCGGGCCCTGGGGCTTCGCTGTCAGGGGGGCAAGGACTTC
AACATGCCCTCACTATCTCCGGATCACACAGACACCATGACCCACCTGGAAGCCAGAACAAGATC
GACCTCGTGGTGGCCATTGACGGCGTCAACACAGACACCATGACCCACCTGGAAGCCAGAACAAGATC
AAGTCTGCCAGTACAATTGAGCCTCACCTGCAGAAATCAAAGCGTCCCATTCCCATCTCCACGACA
GCACCTCCAGTCCAGACCCCTCTGCCGGTGATCCCTACCAGAAGGACCCCGCTCTGGACACGAACGGC
AGCCTGGTGGCACCCAGCCCCAGCCCTGAGGCGAGGGCCAGCCAGGCACCCAGGCACCCCGGAGCTC
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GCCCTGCCGGGCTCGAGCCAGCCGAGGCAATATAACAACCCCATTTGGCCTGTACTCGGCAGAGACCTG
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GAGGTGAAGGGGCTGGGCGGCAAGGCCACCATCATCCATGCGCAGTACAACACGCCCATCAGCATGTAT
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CTCCCTATTAAGGACCTTGCCGTAGACAGCGCCTCTCCGCTTACCAGGCTGTGATTAAGAGCCAGAAC
AAGCCAGAAGATGAGGCTGACGAGTGGGCACGCCGTTCTCCAACCTGCAGTCTCGCTCCTTCCGCATC
CTGGCCAGATGACGGGGACAGAATTATGCAAGACCCTGATGAAGAAGCTCTGCGAAGGTCAAGGGAA
AGGTTTGAACGGAACGTAACAGCCACGTTTTGCCAAATTGCGCAACTGGCACCATGGCCTTTCAGCC
CAAATCCTTAATGTAAAGCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI


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ACCN:	NM_001171611
Insert Size:	1197 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001171611.1</u>
RefSeq Size:	1899 bp
RefSeq ORF:	1197 bp
Locus ID:	11155
UniProt ID:	<u>O75112</u>
Cytogenetics:	10q23.2
MW:	42.8 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]

Transcript Variant: This variant (6) differs in the 3' UTR and has multiple differences in the coding region, compared to variant 1. The encoded isoform (6) is shorter and has a distinct C-terminus, compared to isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.