

Product datasheet for **SC318863**

LDB1 (NM_001113407) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDB1 (NM_001113407) Human Untagged Clone
Tag:	Tag Free
Symbol:	LDB1
Synonyms:	CLIM-2; CLIM2; LDB-1; NLI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003893, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGATAGGGATGTGGGCCCAACTCCCATGTATCCGCTACATACCTGGAGCCAGGGATTGGGAGGC
ACACACCATATGGCAACCAAACTGACTACAGAATATTTGAGCTTAACAAACGGCTTCAGAACTGGACAGA
GGAGTGTGACAACTCTCTGGTGGGATGCATTACGACTGAGTTCTTTGAGGATGATGCCATGTTGACCATC
ACTTTCTGCCTGGAGGATGGACCAAGAGATATACCATTGGCCGGACCCTGATCCCACGCTACTTCCGCA
GCATCTTTGAGGGGGTGTACGGAGCTGTACTATGTTCTTAAGCACCCCAAGGAGGCATTCCACAGCAA
CTTTGTGTCCCTCGACTGTGACCAGGGCAGCATGGTGACCCAGCATGGCAAGCCCATGTTACCCAGGTG
TGTGTGGAGGGCCGTTGTACCTGGAGTTCATGTTTGACGACATGATGCGGATAAAGACGTGGCACTTCA
GCATCCGGCAGCACCCGAGAGCTCATCCCCGCAGCATCCTTGCCATGCATGCCAAGACCCCCAGATGTT
GGATCAGCTCTCAAAAACATCACTCGGTGTGGGCTGTCCAATCCACTCTCAACTACCTCCGACTCTGT
GTGATACTCGAGCCCATGCAAGAGCTCATGTACGCCACAAGACCTACAGCCTCAGCCCCCGGACTGCC
TCAAGACCTGCCTTTTCCAGAAGTGGCAGCGCATGGTAGCACCCCTGCGGAGCCACACGTGAGCAGCC
CAGCAACGGCGGAAACGGAAGATGTGAGGGGGCAGCACCATGAGCTCTGGTGGTGGCAACCAACAAC
AGCAACAGCAAGAAGAAGAGCCAGCTAGCACCTTCGCCCTCTCCAGCCAGGTACCTGATGTGATGGTGG
TGGGGGAGCCACCCTGATGGGCGGGGAGTTGCGGGACGAGGACGAGAGGCTCATACCCGGCTGGAGAA
CACCCAGTTTGACGCAGCCAACGGCATTGACGACGAGGACAGCTTTAACTCCCTGCACTGGGCGCC
AACAGCCCTGGAACAGCAAGCCTCCGTCCAGCCAAGAAAGCAAAATCGGAGAACCCACGTCACAGGCCCT
CCAGTAA
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Restriction Sites:	Please inquire
ACCN:	NM_001113407
Insert Size:	1900 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:

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_001113407.1](#), [NP_001106878.1](#)

RefSeq Size: 2112 bp

RefSeq ORF: 1236 bp

Locus ID: 8861

UniProt ID: [Q86U70](#)

Cytogenetics: 10q24.32

Protein Families: Transcription Factors

Gene Summary: Binds to the LIM domain of a wide variety of LIM domain-containing transcription factors. May regulate the transcriptional activity of LIM-containing proteins by determining specific partner interactions. Plays a role in the development of interneurons and motor neurons in cooperation with LHX3 and ISL1. Acts synergistically with LHX1/LIM1 in axis formation and activation of gene expression. Acts with LMO2 in the regulation of red blood cell development, maintaining erythroid precursors in an immature state (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (1).