

Product datasheet for **SC117666**

LDB1 (NM_003893) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDB1 (NM_003893) 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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ATGCTGGATAGGGATGTGGGCCAACTCCCATGTATCCGCTACATACCTGGAGCCAGGGATTGGGAGGC
ACACACCATATGGCAACCAAACTGACTACAGAATATTTGAGCTTAACAAACGGCTTCAGAACTGGACAGA
GGAGTGTGACAATCTCTGGTGGGATGCATTCACGACTGAGTTCTTTGAGGATGATGCCATGTTGACCATC
ACTTTCTGCCTGGAGGATGGACCAAGAGATATACCATTGGCCGGACCCTGATCCCACGCTACTTCCGCA
GCATCTTTGAGGGGGTGTACGGAGCTGTACTATGTTCTTAAGCACCCCAAGGAGGCATTCCACAGCAA
CTTTGTGTCCCTCGACTGTGACCAGGGCAGCATGGTGACCCAGCATGGCAAGCCCATGTTACCCAGGTG
TGTGTGGAGGGCCGTTGTACCTGGAGTTCATGTTTGACGACATGATGCGGATAAAGACGTGGCACTTCA
GCATCCGGCAGCACCCGAGAGCTCATCCCCGCAGCATCCTTGCCATGCATGCCAAAGACCCCGAGATGTT
GGATCAGCTCTCAAAAACATCACTCGGTGTGGGCTGTCCAATCCACTCTCAACTACCTCCGACTCTGT
GTGATACTCGAGCCCATGCAAGAGCTCATGTACGCCACAAGACCTACAGCCTCAGCCCCCGGACTGCC
TCAAGACCTGCCTTTTCCAGAAGTGGCAGCGCATGGTAGCACCCCTGCGGAGCCACACGTGAGCAGCC
CAGCAAACGGCGAAACGGAAGATGTGAGGGGGCAGCACCATGAGCTCTGGTGGTGGCAACCAACAAC
AGCAACAGCAAGAAGAAGAGCCAGCTAGCACCTTCGCCCTCTCCAGCCAGGTACCTGATGTGATGGTGG
TGGGGGAGCCACCCTGATGGGCGGGGAGTTGCGGGACGAGGACGAGAGGCTCATACCCGGCTGGAGAA
CACCCAGTTTGACGCAGCCAACGGCATTGACGACGAGGACAGCTTTAACTCACTCCCCTGCACTGGGCGCC
AACAGCCCTGGAACAGCAAGCCTCCGTCCAGCCAAGAAAGCAAAATCGGAGAACCCACGTCACAGGCCT
CCAGTAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003893 unedited ATGTCANCATTTGTATACGACNACTATAGGCGGCACGCGAATTCGCACCAGCGGGCGGCGG CTCATGCCCGCCTGTCCCCGCGAGGGGCGGGCACCGTGA CTGGCTGGGCCCCAGAGG CGGGCGATGTGAAGATGTCAGTGGGCTGTGCCTGTCTGGTTGTTCTCAAAGTCATTCA AGCTGTACTCGCCGAAGGAGCCCCGAACGGCAACGCCTTTCCCCCTTCCATCCCGGCA CCATGCTGGATAGGGATGTGGGCCAACTCCCATGTATCCGCCTACATACCTGGAGCCAG GGATTGGGAGGCACACACCATATGGCAACCAAAGTACTACAGAATATTTGAGCTTAACA AACGGCTTCAGAACTGGACAGAGGAGTGTGACAATCTCTGGTGGGATGCATTACGACTG AGTTCTTTGAGGATGATGCCATGTTGACCATCACTTTCTGCCTGGAGGATGGACCAAAGA GATATACCATTGGCCGGACCCTGATCCCACGCTACTTCCGCAGCATCTTTGAGGGGGTG CTACGGAGCTGTACTATGTTCTTAAGCACCCCAAGGAGGCATTCCACAGCAACTTTGTGT CCCTCGACTGTGACCAGGGCAGCATGGTGACCCATCATGGCAAGCCCATGTTACCCATG TGTGTGTGGAGGGCCGGTTGTACCTGGAGTTCATGTTTGACGACATGATGCGGATAAAGA CGTGGCACTTCAGCATCCGGCAGCACCGATAGCTCATCCCCGCATCATCCTTGCCATGC ATGCNCAAGACCCCGAGATGNTGGNATCAGCTCTCCAAAACATCACTCGGGTGTGGGCTG TCCAATCCACTCTCAACTACCTNCGACTCTGTGTGATACTCGAGCCCATGCATGATCTC ATGTCACGCCACATGATCTACAGNCTCATNCCNCGCGACTGGCTCT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003893 unedited GAAAATCTAGNNACCGCGCCGCAATCTAGNGATCGATTTTTTTTTTTTTTTTTAACTT ACATTTTTAATAATATTATTTTTAAAAAACTTGGAGCTGGGATAAGTGGCAGCAGGGAG GAGGGGCCAGAGCTTTACCCCTCTATTACCAGCTGCCTAGGGGAAGGAGCATTCAACGA AGCCCCGTAACCTTAAGTCCCTAAGGGCTGTGGGTATAGACAACCCAGGCTTGAAGGG GTAAAGTCAGGGGATGGGAAACCCACAATCTGGGGTGAAGATGGAGGCAATGCCTGG GGGTGGTCAGGACATGTCTCAGAGGCCAGGTTCCAAGTAGGCATCCACATGAGTACCC CCTCCCCCTAAAAGGCTCTGTAGAGGCCAGGCCAGCCAGGGCCACTGGGGGGGCAAT CTTGGCACCTGCCCCAGAGAGTCCAGTTCCTCCCTGAAGCGGGTGGATGGAGGCTGCC ATTTTAGATGCTCAGTCTTTCATTCTGTCTTCTGCTCCCTGGGGCTGTGAGGGGTGGG CAGGTAGGCAGAGCACTGGGTGGCCACAGCAGGGCCTTTACTGGGAGGCCTGTGACGTG GGGTTCTCCGATTTGCTTTCTTGGCTGGACGGAGGCTTGTCTTCCAGGGGCTGTTGGCC CCCAGTGCAGGGAGTTGTTAAAGCTGTCTCGTCAATGCCGTTGGCTGCGTCAAAC TGGGTGTTCTCCAGCCGGTGATAAGCCTCTCGTCTCGTCCCGAATCCCCGCCATCA GGGTGGGCTCCACCCACCTCACATCAAGTACCTGGCTGGAAAGGCCAAAGTGCTACCT GGGCCCTTCTTCTGCTGTTGCTGGTGTGGGGTGGCCACCACACNAAGCTAAGGTGCTG GCCCCTGGCATCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003893
Insert Size:	1900 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_003893.3, NP_003884.1</u>
RefSeq Size:	2292 bp
RefSeq ORF:	1128 bp
Locus ID:	8861
UniProt ID:	<u>Q86U70</u>
Cytogenetics:	10q24.32
Domains:	LIM_bind
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) has a different 5'-terminal exon and 5' UTR, compared to variant 1. This variant encodes a protein (isoform 3) that lacks 36 aa at the N-terminus, compared to isoform 1.</p>