OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC119326

LDB2 (NM_001290) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDB2 (NM_001290) Human Untagged Clone
Tag:	Tag Free
Symbol:	LDB2
Synonyms:	CLIM1; LDB-2; LDB1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_001290 edited
GAATTCGGCACGAGGTGCCTGCCTGCCTGCCTCTGTGTGTGTGTGAGCGTGTGTGCGTGC
GTCTACTTTGTACTGGGAAGAACACAGCCCATGTGCTCTGCATGGACGTTACTGATACTC
TGTTTAGCTTGATTTTCGAAAAGCAGGCAAGATGTCCAGCACACCACATGACCCCTTCTA
TTCTTCTCCTTTCGGCCCATTTTATAGGAGGCATACACCATACATGGTACAGCCAGAGTA
CCGAATCTATGAGATGAACAAGAGACTGCAGTCTCGCACAGAGGATAGTGACAACCTCTG
GTGGGACGCCTTTGCCACTGAATTTTTTGAAGATGACGCCACATTAACCCTTTCATTTTG
TTTGGAAGATGGACCAAAGCGATACACTATCGGCAGGACCCTCATCCCCCGTTACTTTAG
CACTGTGTTTGAAGGAGGGGTGACCGACCTGTATTACATTCTCAAACACTCGAAAGAGTC
ATACCACAACTCATCCATCACGGTGGACTGCGACCAGTGTACCATGGTCACCCAGCACGG
GAAGCCCATGTTTACCAAGGTATGTACAGAAGGCAGACTGATCTTGGAGTTCACCTTTGA
TGATCTCATGAGAATCAAAACATGGCACTTTACCATTAGACAATACCGAGAGTTAGTCCC
GAGAAGCATCCTAGCCATGCATGCACAAGATCCTCAGGTCCTGGATCAGCTGTCCAAAAA
CATCACCAGGATGGGGCTAACAAACTTCACCCTCAACTACCTCAGGTTGTGTGTAATATT
GGAGCCAATGCAGGAACTGATGTCGAGACATAAAACTTACAACCTCAGTCCCCGAGACTG
CCTGAAGACCTGCTTGTTTCAGAAGTGGCAGAGGATGGTGGCTCCGCCAGCAGAACCCAC
AAGGCAACCAACAACCAAACGGAGAAAAAGGAAAAATTCCACCAGCAGCACTTCCAACAG
CAGCGCTGGGAACAATGCAAACAGCACTGGCAGCAAGAAGAAGACCACAGCTGCAAACCT
GAGTCTGTCCAGTCAGGTACCTGATGTGATGGTGGTAGGAGAGCCAACTCTGATGGGAGG
TGAGTTTGGGGACGAGGACGAAAGGCTAATCACTAGATTAGAAAACACGCAATATGATGC
GGCCAACGGCATGGACGACGAGGAGGACTTCAACAATTCACCCGCGCTGGGGAACAACAG
CCCGTGGAACAGTAAACCTCCCGCCACTCAAGAGACCAAATCAGAAAACCCCCCACCCCA
GGCTTCCCAATAAGATGATCGGCACCAGAATCCACTGTCAATAGGCCCGTGGGTGATCAT
TACAATTGCAAATCTTTACTTACAGGAGAGGAAACAGAAGAGATAAAAACTTTTCCATGC
AAATATCTATTTCTAAACCACAATGATCTGATTTTCTTTCTTCTTTCTTTTTTTCTAATT
GAGAGGATTATTCCCAATAAGCTTCCATGACCCTTTCTTGGAGGCCTTCACAGGTAATAC
AGATACTGGCACTGATTGTAATTAAAATGAGAGAAAACTCTAGCGCATCTTCTGGCACGG
TTTTAACAACGTGTTTGTGTTGAATTTCCTTTTTATGCATCAAACGAAGGCCATATTGTC
CATAAATGCTCAGTGCTCAGGATCTCATTAATATGCCGAACCTAACTACAGATGACTTTT
TAATATTGTAAAATATTTTCTGCTTTTTGACTTGCATCTGAGAGTTTCTTGTTTCAGTAA
AAAAAGAAAAGACAAAAAAATCAGCTTTGGAAAGTAATTTAAATGTACCTTATTTTTTTT
TTCTTTATGTTTTCTTTCATTGGGCAACAGCTAAGAGGGCCCAGCAAGGTAATTTATGGT
TGAGCTGATGTCAATTGGTTCTTGTCTTGAGTCGACTCAATTTAGCCCAAGTGCTGAAAC
AAGAAATGTCATTTTTTTCATCAAAGACACCAGGGCAGATTTTTAAGTAAAGAAAGACAA
TTGGACCCTTAAGAATTTATGCATTTGTAAAGTTGCTGTTGATCCAAATATTTTCAAGCC
ATGTAATCCATTGGTTTTGTGGGCAGTTTAATAAACCTGAACCTTTGTGTGTTTTCTAAT
TGTACCTGAGTTGACCATCCTTTCTTTTTATAGTATATTTCTTGTATGATATTTTGTAAA
GCTCTCACCTGGTTCTTTTATGGGGACTTTTCGTTTTTGGGCAACTCCAGTGTATTTATG
TGAAACTTTATAAGAGAATTAATTTTTCCATTTGCATATTAATATGTTCCTCCACACATG
TAAAGGCACAGTGGCTCCGTGTGTTAAAAAACAGCTGTATTTTATGTATGCTTTACTGAT
AAGTGTGCCAATAATAAACTGTGTTAATGACCAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001290 unedited
GGTTCAAATTTGTATACGACTCCTATAGGCGGCCCGCGAATCGGCACGAGGTGCCTGCCT
GCCTGCCTCTGTGTGTGTGTGAGCGTGTGTGCGTGCGTCTACTTTGTACTGGNGAAGAAC
ACAGCCCATGTGCTCTGCATGGACGTTACTGATACTCTGTTTAGCTTGATTTTCGAAAAG
CAGGCAAGATGTCCAGCACACCACATGACCCCTTCTATTCTTCTCCTTTCGGCCCATTTT
ATAGGAGGCATACACCATACATGGTACAGCCAGAGTACCGAATCTATGAGATGAACAAGA
GACTGCAGTCTCGCACAGAGGATAGTGACAACCTCTGGTGGGACGCCTTTGCCACTGAAT
TTTTTGAAGATGACGCCACATTAACCCTTTCATTTTGTTTGGAAGATGGACCAAAGCGAT
ACACTATCGGCAGGACCCTCATCCCCCGTTACTTTAGCACTGTGTTTGAAGGAGGGGTGA
CCGACCTGTATTACATTCTCAAACACTCGAAAGAGTCATACCACAACTCATCCATCACGG
TGGACTGCGACCAGTGTACCATGGTCACCCAGCACGGGAAGCCCATGTTTACCAAGGTAT
GTACAGAAGGCAGACTGATCTTGGAGTTCACCTTTGATGATCTCATGAGAATCAAAACAT
GGCACTTTACCATTAGACAATACCGAGAGTTAGTCCCGAGAAGCATCCTAGCCATGCATG
CACAAGATCCTCAGGTCCTGGATCAGCTGTCCAAAAACATCACCAGNATGGGGCTAACAA
ACTTCACCCTCACTACCTCAGGTTGTGTGTAATATTGGACCCATGCNAGAACTGATGTCG
AGACATAAAACTTTACACCTCAGTCCCCGAGACTGCCTGAAGACCCTGCTGNTTCCAGAA
C

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001290 unedited
GCAACTTTCCAGGNCCAGGNATAGCACTGGGGNAGGGGTCACAGGGATGCCACCCGGGAT
CTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTT
TTTGGTCATTAACACAGTTTATTATTGGCACACTTATCAGTAAAGCATACATAAAATACA
GCTGTTTTTTAACACACGGAGCCACTGTGCCTTTACATGTGTGGAGGAACATATTAATAT
GCAAATGGAAAAATTAATTCTCTTATAAAGTTTCACATAAATACACTGGAGTTGCCCAAA
AACGAAAAGTCCCCATAAAAGAACCAGGTGAGAGCTTTACAAAATATCATACAAGAAATA
TACTATAAAAAGAAAGGATGGTCAACTCAGGTACAATTAGAAAACACACAAAGGTTCAGG
NNNATTAAACTGCCCACAAAACCAATGGATTACATGGCTTGAAAATATTTGGATCAACAG
CAACTTTACAAATGCATAAATTCTTAAGGGTCCAATTGTCTTTCTTTACTTAAAAATCTG
CCCTGGTGTCTTTGATGAAAAAATGACATTTCTTGTTTCAGCACTTGGGCTAAATTGAGT
NCGACTCAAGACAAGAACCAATTGACATCAGCTCAACATAAATTACCTTGCTGGGCCCTC
TTAGCTGTTGCCCAATGAAAGAAAACATAAAGAAAAAAAAAATAAGGGTACATTTAAATTA
CTTTCCAAAGCTGATCTTTNNNNNCTTTTTCTTTNTTTACCTGAAACAGGAAACTCTTCA
GATGCAGTCCNAAAGCAGAAAATATTTNNTACATATTAAAAAAGTACTCTGAGNTTAGGT
TCGGCTTATTATGGAGAATCTTGAGCACTGAGCATTATGGACAATTATGGCCTTCGCTTG
ATGCATAAAAGGAAATTAACACNAACCCGTGNTNAAAACGTGCACAAGATGGCT

Restriction Sites: NotI-NotI

ACCN: NM_001290

Insert Size: 4660 bp

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
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_001290.2, NP_001281.1
RefSeq Size:	2463 bp
RefSeq ORF:	1122 bp
Locus ID:	9079
UniProt ID:	O43679
Cytogenetics:	4p15.32
Domains:	LIM_bind
Gene Summary:	The protein encoded by this gene belongs to the LIM-domain binding family. Members of this family are characterized by a conserved nuclear localization sequence, an amino-terminal homodimerization domain and a carboxy-terminal LIM interaction domain. These proteins function as adapter molecules to allow assembly of transcriptional regulatory complexes. Genetic association studies suggest functions for this gene in rhegmatogenous retinal detachment and coronary artery disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015] Transcript Variant: This variant (1) encodes the longest isoform (a).