

## Product datasheet for **RG201182**

### LDB1 (NM\_003893) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LDB1 (NM_003893) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LDB1
Synonyms:	CLIM-2; CLIM2; LDB-1; NLI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201182 representing NM_003893 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGATAGGGATGTGGGCCAACTCCCATGTATCCGCCTACATACCTGGAGCCAGGGATTGGGAGGC  
ACACACCATATGGCAACCAAAGTACTACAGAATATTTGAGCTTAACAAACGGCTTCAGAACTGGACAGA  
GGAGTGTGACAACTCTCTGGTGGGATGCATTCACGACTGAGTTCTTTGAGGATGATGCCATGTTGACCATC  
ACTTTCTGCCTGGAGGATGGACCAAAGAGATATACCATTGGCCGGACCCTGATCCCACGCTACTTCCGCA  
GCATCTTTGAGGGGGTGTACGGAGCTGTACTATGTTCTTAAGCACCCCAAGGAGGCATCCACAGCAA  
CTTTGTGTCCCTCGACTGTGACCAGGGCAGCATGGTGACCCAGCATGGCAAGCCCATGTTACCCAGGTG  
TGTGTGGAGGGCCGGTTGTACCTGGAGTTCATGTTTACGACATGATGCGGATAAAGACGTGGCACTTCA  
GCATCCGGCAGCACCGAGAGCTCATCCCCGCAGCATCCTTGCCATGCATGCCAAGACCCCGAGATGTT  
GGATCAGCTCTCCAAAACATCACTCGGTGTGGGCTGTCCAATCCACTCTCAACTACCTCCGACTCTGT  
GTGATACTCGAGCCATGCAAGAGCTCATGTACGCCACAAGACCTACAGCCTCAGCCCCGCGACTGCC  
TCAAGACCTGCCTTTCCAGAAGTGGCAGCGCATGGTAGCACCCCTGCGGAGCCACACGTCAGCAGCC  
CAGCAAACGGCGAAACGGAAGATGTACGGGGCAGCACCATGAGCTCTGGTGGTGGCAACCAACAAC  
AGCAACAGCAAGAAGAAGAGCCAGCTAGCACCTTCGCCCTCCAGCCAGGTACCTGATGTGATGGTGG  
TGGGGGAGCCACCCCTGATGGGCGGGGAGTTCGGGGACGAGGACGAGAGGCTCATCACCCGCTGGAGAA  
CACCCAGTTTGACGCAGCAACGGCATTGACGACGAGGACAGCTTTAACAACTCCCTGCACTGGGCGCC  
AACAGCCCTGGAACAGCAAGCCTCCGTCCAGCCAAGAAAGCAAATCGGAGAACCCACGTCACAGGCT  
CCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201182 representing NM\_003893  
 Red=Cloning site Green=Tags(s)

MLDRDVGPTMPYPPTYLEPGIGRHTPYGNQTDYRIFELNKRLQNWTEECDNLWDAFTTEFFEDDAMLTI  
 TFCLEDGPKRYTIGRTLIPRYFRSIFEGGATEL YYVLKHPKEAFHSNFVSLDCDQGSMTQHGKPMFTQV  
 CVEGRLYLEFMFDDMMRIKTWHFSIRQHRELIPRSILAMHAQDPQMLDQLSKNITRGLSNSTLNYLRLC  
 VILEPMQELMSRHKTYSLSPRDCLKTCLFQKWQRMVAPPAEPTRQQPSKRRKRKMSGGSTMSSGGGNTNN  
 SNSKKKSPASTFALSSQVPDVMVVGEP TLMGGEFGDEDERLITRLENTQF DAANGIDDEDSFNNSPALGA  
 NSPWNSKPPSSQESKSENPTSQASQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003893

**ORF Size:** 1125 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\\_003893.5](#)

**RefSeq Size:** 2292 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 8861

**UniProt ID:** [Q86U70](#)

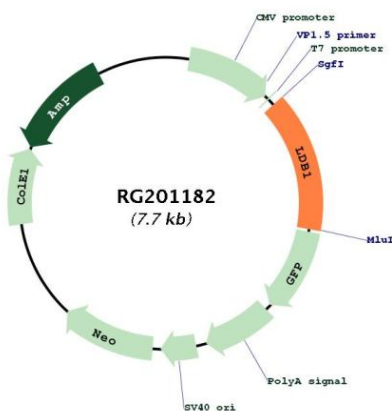
**Cytogenetics:** 10q24.32

**Domains:** LIM\_bind

**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]

## Product images:



Circular map for RG201182