

Product datasheet for **RG225646**

LDB1 (NM_001113407) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDB1 (NM_001113407) 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:	>RG225646 representing NM_001113407 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGTGGGCTGTGCCTGTCTGGTTGTTCTCAAAGTCATTCAAGCTGTACTCGCCGAAGGAGCCCC
CGAACGGCAACGCCTTTCCCTTCCATCCCGGCACCATGCTGGATAGGGATGTGGGCCAACTCCCAT
GTATCCGCCTACATACCTGGAGCCAGGGATTGGGAGGCACACACCATATGGCAACCAAAGTACTACAGA
ATATTTGAGCTTAACAAACGGCTTCAGAACTGGACAGAGGAGTGTGACAATCTCTGGTGGGATGCATTCA
CGACTGAGTTCTTTGAGGATGATGCCATGTTGACCATCACTTTCTGCCTGGAGGATGGACCAAAGAGATA
TACCATTGGCCGGACCCTGATCCCACGCTACTTCCGAGCATCTTTGAGGGGGTGTACGGAGCTGTAC
TATGTTCTTAAGCACCCCAAGGAGGCATTCCACAGCAACTTTGTGTCCCTCGACTGTGACCAGGGCAGCA
TGGTGACCCAGCATGGCAAGCCCATGTTACCCAGGTGTGTGTGGAGGGCCGGTGTACCTGGAGTTCAT
GTTTGACGACATGATGCGGATAAAGACGTGGCACTTCAGCATCCGGCAGCACCGAGAGCTCATCCCCGC
AGCATCCTTGCCATGCATGCCAAAGACCCCGATGTTGGATCAGCTCTCCAAAACATCACTCGGTGTG
GGCTGTCCAATCCACTCTAACTACCTCCGACTCTGTGTGATACTCGAGCCCATGCAAGAGCTCATGTC
ACGCCACAAGACCTACAGCCTCAGCCCCGCGACTGCCTCAAGACCTGCCTTTCCAGAAGTGCAGCGCC
ATGGTAGCACCCCTGCGGAGCCACAGTCAGCAGCCAGCAACCGCGGAAACGGAAGATGTCAGGGG
GCAGACCATGAGCTCTGGTGGTGGCAACACCAACAGCAACAGCAAGAAGAAGAGCCAGCTAGCAC
CTTCGCCCTCTCCAGCCAGGTACCTGATGTGATGGTGGTGGGGAGCCACCCTGATGGCGGGGAGTTC
GGGGACGAGGACGAGAGGCTCATCACCCGGCTGGAGAACACCCAGTTTGACGCAGCCAACGGCATTGACG
ACGAGGACAGCTTTAACAACTCCCTGCACTGGGCGCCAACAGCCCTGGAACAGCAAGCCTCCGTCCAG
CCAAGAAAGCAAATCGGAGAACCCACGTCACAGGCTCCAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225646 representing NM_001113407
 Red=Cloning site Green=Tags(s)

MSVGCACPGCSSKSFKLYSPKEPPNGNAFPPFHPGTMLDRDVGPTMPYPPTYLEPGIGRHTPYGNQTDYR
 IFELNKRLLQNWTEECDNLWWDAF TTEFFEDDAML TITFCLEDGPKRYTIGRTLIPRYFRSIFEGGATELY
 YVLKHPKEAFHSNFVSLDCDQGSMTQHGKPMFTQVCVEGRLYLEFMFDDMMRIKTWHFSIRQHRELIPR
 SILAMHAQDPQMLDQLSKNITRCGLSNSTLNYLRLCVILEPMQELMSRHKTYSLSPRDCLKTCLFQKWQR
 MVAPPAEPTRQQPSKRRKRKMSGGSTMSSGGGNTNNSNSKKKSPASTFALSSQVPDVMVVGEP TLMGGEF
 GDERLITRLENTQFDAANGIDDEDSFNNSPALGANSWNSKPPSSQESKSENPTSQASQ

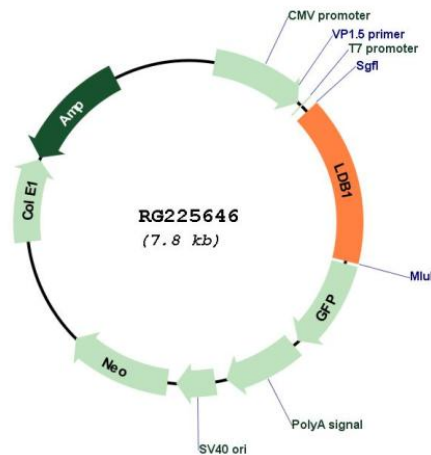
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001113407

ORF Size:	1233 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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:	NM_001113407.3
RefSeq Size:	2112 bp
RefSeq ORF:	1236 bp
Locus ID:	8861
UniProt ID:	Q86U70
Cytogenetics:	10q24.32
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>