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Product datasheet for MG225015

Ldb1 (NM_001113408) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ldb1 (NM_001113408) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ldb1
Synonyms:	CLIM2; NLI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG225015 representing NM_001113408
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGTGGGCTGTGCCTGTCCTGGTTGTTCCTCAAAGTCATTCAAGCTGTACTCGCCGAAGGAGCCCC
CGAACGGCAACGCCTTCCCTCCCTTCCACCCCGGCACCATGCTGGATCGGGATGTGGGCCCAACTCCCAT
GTACCCACCTACATACCTGGAGCCTGGGATCGGGAGGCACACACCATATGGTAACCAAACCGACTATAGA
ATATTTGAGCTTAACAAACGGCTACAGAACTGGACAGAGGAGTGTGACAATCTCTGGTGGGATGCTTTCA
CAACTGAGTTCTTTGAAGATGACGCCATGCTGACCATCACTTTCTGCTTGGAGGATGGACCAAAGAGATA
TACCATTGGCCGGACCCTGATACCACGCTACTTCCGAAGCATTTTTGAGGGGGGTGCCACAGAGCTGTAC
TACGTGCTCAAGCACCCCAAGGAGGCATTCCACAGCAACTTCGTGTCCCTCGACTGTGACCAGGGCAGCA
TGGTGACCCAGCACGGCAAACCCATGTTTACCCAGGTGTGTGTGGAAGGCCGGTTGTACCTGGAGTTCAT
GTTTGACGACATGATGCGGATAAAGACGTGGCACTTCAGCATCCGGCAACACAGAGAGCTCATCCCCAGA
AGTATCCTGGCCATGCACGCCCAGGACCCCCAGATGCTGGATCAGCTGTCCAAAAACATTACCCGGTGTG
GGCTGTCCAATTCCACTCTCAACTACCTCCGACTCTGTGTGATACTAGAGCCCATGCAGGAACTTATGTC
CCGCCACAAGACCTACAGCCTCAGCCCCCGAGACTGCCTCAAGACCTGCCTCTTCCAGAAGTGGCAGCGA
ATGGTAGCGCCTCCCGCGGAGCCCGCACGACAGCAGCCCAGCAAACGGAGGAAACGGAAGATGTCAGGGG
GTAGCACCATGAGCTCGGGGGGTGGCAACACCAACAACAGCAACAGCAAGAAGAAGAGCCCAGCCAGCAC
CTTCGCTCTCTCCAGCCAGGTACCTGATGTGATGGTGGTGGGGGAGCCCACCCTGATGGGCGGGGAGTTC
GGGGACGAGGACGAGAGGCTCATCACCCGGCTGGAGAACACCCAGTTTGACGCGGCCAACGGCATTGACG
ACGAGGACAGCTTTAACAACTCCCCCGCACTGGGCGCCAACAGCCCCTGGAACAGCAAGCCTCCATCCAG
CCAAGAGAGCAAATCGGAGAATCCCACGTCACAGGCTTCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

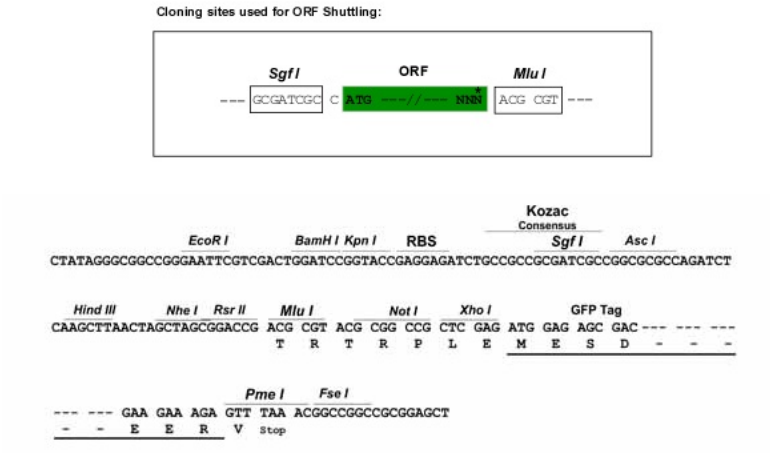
>MG225015 representing NM_001113408
Red=Cloning site Green=Tags(s)

MSVGCACPGCSSKSFKLYSPKEPPNGNAFPPFHPGTMLDRDVGPTPMYPPTYLEPGIGRHTPYGNQTDYR
IFELNKRLQNWTEECDNLWWDAFTTEFFEDDAMLTITFCLEDGPKRYTIGRTLIPRYFRSIFEGGATELY
YVLKHPKEAFHSNFVSLDCDQGSMVTQHGKPMFTQVCVEGRLYLEFMFDDMMRIKTWHFSIRQHRELIPR
SILAMHAQDPQMLDQLSKNITRCGLSNSTLNYLRLCVILEPMQELMSRHKTYSLSPRDCLKTCLFQKWQR
MVAPPAEPARQQPSKRRKRKMSGGSTMSSGGGNTNNSNSKKKSPASTFALSSQVPDVMVVGEPTLMGGEF
GDEDERLITRLENTQFDAANGIDDEDSFNNSPALGANSPWNSKPPSSQESKSENPTSQASQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001113408

ORF Size: 1233 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_001113408.2

RefSeq Size: 2110 bp

RefSeq ORF: 1236 bp

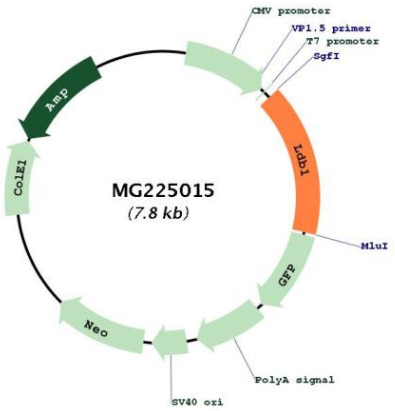
Locus ID: 16825

UniProt ID: P70662

Cytogenetics: 19 38.75 cM

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225015