

Product datasheet for MR225015

Ldb1 (NM_001113408) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ldb1 (NM_001113408) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ldb1
Synonyms:	CLIM2; NLI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225015 representing NM_001113408 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGTGGGCTGTGCCTGTCTGTTGTTCTCAAAGTCATTCAAGCTGTACTCGCCGAAGGAGCCCC
CGAACGGCAACGCCTTCCTCCCTCCACCCCGGCACCATGCTGGATCGGGATGTGGGCCAACTCCCAT
GTACCCACCTACATACCTGGAGCCTGGGATCGGGAGGCACACACCATATGGTAACCAAACCGACTATAGA
ATATTTGAGCTTAACAAACGGCTACAGAACTGGACAGAGGAGTGTGACAATCTCTGGTGGGATGCTTTCA
CAACTGAGTTCTTTGAAGATGACGCCATGCTGACCATCACTTTCTGCTTGGAGGATGGACCAAAGAGATA
TACCATTGGCCGGACCCTGATACCACGCTACTTCCGAAGCATTTTGGAGGGGGTCCACAGAGCTGTAC
TACGTGCTCAAGCACCCCAAGGAGGCATTCCACAGCAACTTCGTGTCCCTCGACTGTGACCAGGGCAGCA
TGGTGACCCAGCACGGCAAACCCATGTTTACCCAGGTGTGTGTGGAAGGCCGGTGTACCTGGAGTTCAT
GTTTGACGACATGATGCGGATAAAGACGTGGCACTTCAGCATCCGGCAACACAGAGAGCTCATCCCCAGA
AGTATCCTGGCCATGCACGCCAGGACCCCGATGCTGGATCAGCTGTCCAAAAACATTACCCGGTGTG
GGCTGTCCAATCCACTCTAACTACCTCCGACTCTGTGTGATACTAGAGCCCATGCAGGAACCTTATGTC
CCGCCACAAGACCTACAGCCTCAGCCCCGAGACTGCCTCAAGACCTGCCTTCCAGAAGTGCCAGCGGA
ATGGTAGCGCCTCCCGGGAGCCCGCACGACAGCAGCCAGCAAACGGAGGAAACGAAGATGTCAGGGG
GTAGCACCATGAGCTCGGGGGTGGCAACACCAACAACAGCAACAGCAAGAAGAAGAGCCAGCCAGCAC
CTTCGCTCTCTCCAGCCAGGTACCTGATGTGATGGTGGTGGGGAGCCACCCTGATGGGCGGGAGTTC
GGGGACGAGGACGAGAGGCTCATCACCCGGCTGGAGAACACCCAGTTTGACGCGGCCAACGGCATTGACG
ACGAGGACAGCTTTAACAACTCCCCGCACTGGGCGCCAAACAGCCCTGGAACAGCAAGCCTCCATCCAG
CCAAGAGAGCAAATCGGAGAATCCACGTCACAGGCTTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225015 representing NM_001113408
 Red=Cloning site Green=Tags(s)

MSVGCACPGCSSKSFKLYSPKEPPNGNAFPFHPGTMLDRDVGTPMYPPTYLEPGIGRHTPYGNQTDYR
 IFELNKRLQNWTEECDNLWDAFTTEFFEDDAMLITITFCLEDGPKRYTIGRTLIPRYFRSIFEGGATELY
 YVLKHPKEAFHSNFVSLDCDQGSMTVQHKGPMFTQVCVEGRLYLEFMFDDMMRIKTWHFSIRQHRELIPR
 SILAMHAQDPQMLDQLSKNITRCGLSNSTLNYLR LCVILEPMQELMSRHKTYSLSPRDCLKTCLFQKWQR
 MVAPPAEPARQQPSKRRRKRKMSGGSTMSSGGGNTNNSNSKKKSPASTFALSSQVPDVMVVGEP TLMGGEF
 GDERLITRLENTQFDAANGIDDEDSFNNSPALGANSWPNSKPPSSQESKSENPTSQASQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9045_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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

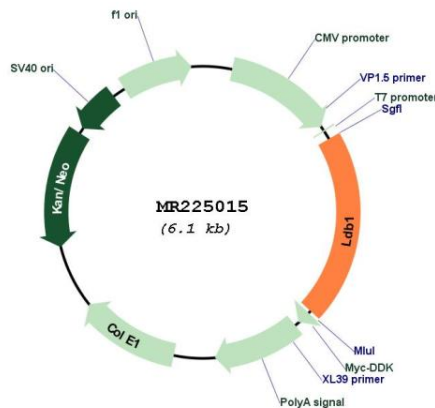
UniProt ID: [P70662](#)

Cytogenetics: 19 38.75 cM

MW: 47 kDa

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 MR225015