

Product datasheet for **MG223855**

Ldb1 (NM_010697) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ldb1 (NM_010697) 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:	>MG223855 representing NM_010697 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGATCGGGATGTGGGCCAACTCCCATGTACCCACCTACATACCTGGAGCCTGGGATCGGGAGGC
ACACACCATATGGTAACCAAACCGACTATAGAATATTTGAGCTTAACAAACGGCTACAGAACTGGACAGA
GGAGTGTGACAACTCTCTGGTGGGATGCTTTCACAACTGAGTTCCTTGAAGATGACGCCATGCTGACCATC
ACTTTCTGCTTGGAGGATGGACCAAAGAGATATACCATTGGCCGGACCCTGATACCACGCTACTTCCGAA
GCATTTTTGAGGGGGTCCACAGAGCTGTACTACGTGCTCAAGCACCCCAAGGAGGCATTCCACAGCAA
CTTCGTGTCCCTCGACTGTGACCAGGGCAGCATGGTGACCCAGCACGGCAAACCCATGTTTACCCAGGTG
TGTGTGGAAGGCCGTTGTACCTGGAGTTCATGTTTGACGACATGATGCGGATAAAGACGTGGCACTTCA
GCATCCGGCAACACAGAGAGCTCATCCCAAGAAGTATCCTGGCCATGCACGCCAGGACCCAGATGCT
GGATCAGCTGTCCAAAAACATTACCCGGTGTGGGCTGTCCAATCCACTCTCAACTACCTCCGACTCTGT
GTGATACTAGAGCCCATGCAGGAAGTATGTCCCGCCACAAGACCTACAGCCTCAGCCCCGAGACTGCC
TCAAGACCTGCCTCTCCAGAAGTGGCAGCGAATGGTAGCGCCTCCCGGGAGCCCGCACGACAGCAGCC
CAGCAAACGGAGAAACGGAAGATGTAGGGGGTAGCACCATGAGCTCGGGGGTGGCAACCAACAAC
AGCAACAGCAAGAAGAAGAGCCAGCCAGCACCTTCGCTCTCCAGCCAGGTACCTGATGTGATGGTGG
TGGGGGAGCCCAACCTGATGGGCGGGAGTTCGGGGACGAGGAGAGGCTCATCACCCGCTGGAGAA
CACCCAGTTTGACGCGGCCAACGCATTGACGACGAGGACAGCTTTAACAACTCCCCGCACTGGGCGCC
AACAGCCCTGGAACAGCAAGCCTCCATCCAGCCAAGAGAGCAAATCGGAGAATCCACGTCACAGGCTT
CCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223855 representing NM_010697
 Red=Cloning site Green=Tags(s)

MLDRDVGPTMPYPPTYLEPGIGRHTPYGNQTDYRIFELNKRLQNWTEECDNLWDAFTTEFFEDDAMLTI
 TFCLEDGPKRYTIGRTLIPRYFRSIFEGGATEL YYVLKHPKEAFHSNFVSLDCDQGSMTVQH GKPMFTQV
 CVEGRL YLEFMFDDMMRIKTWHFSIRQHRELIPRSILAMHAQDPQMLDQLSKNITRGLSNSTLNYLRLC
 VILEPMQELMSRHKTYSLSPRDCLKTCLFQKWQRMVAPPAEPARQQPSKRRKRKMSGGSTMSSGGGNTNN
 SNSKKKSPASTFALSSQVPDVMVVGEPTLMGGEFGDEDERLITRLENTQFDAQNGIDDEDSFNNSPALGA
 NSPWNSKPPSSQESKSENPTSQASQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010697

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_010697.2](#)

RefSeq Size: 2295 bp

RefSeq ORF: 1128 bp

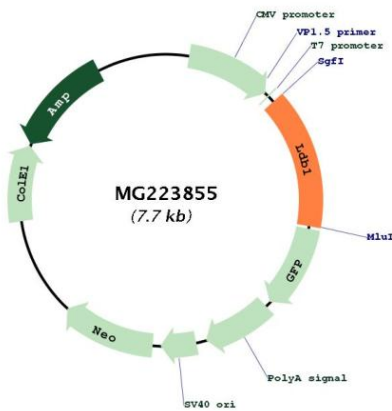
Locus ID: 16825

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 MG223855