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Product datasheet for MC219504

Lmnb2 (NM_010722) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lmnb2 (NM_010722) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lmnb2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

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Fully Sequenced ORF:

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>MC219504 representing NM_010722
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCTCTGCCGCCCCACGCGGGGCCCGCCACGCCGCTGTCGCCCACGCGTCTGTCTCGGCTGCAGG
AGAAGGAGGAGCTCCGTGAGCTCAACGACCGCCTGGCACACTACATCGACCGTGTCCGCGCGCTGGAGCT
GGAGAATGATAGGTTGCTGCTCCGGATCTCCGAGAAGGAGGAGGTGACCACTCGCGAGGTGAGTGGCATC
AAGACCCTGTACGAGTCAGAGCTGGCTGACGCCCGACGGGTACTGGATGAGACGGCCCGTGAACGTGCCC
GGCTGCAGATTGAAATTGGAAAGGTGCAGGCTGAGCTAGAGGAGGCCAGGAAGAGTGCCAAGAAGCGGGA
AGGTGAGCTCACAGTGGCCCAGGGCCGAGTGAAGGATCTGGAATCACTGTTTCACCGGAGTGAGGCTGAG
CTGGCCACAGCCCTCAGTGACAAGCAGGGCCTGGAGACAGAGGTGGCAGAGCTTCGAGCACAGCTGGCCA
AGGCAGAAGATGGTCATGCTGTGGCCAAGAAGCAGTTGGAGAAGGAGACGCTGATGCGTGTGGACCTGGA
GAACCGATGCCAGAGCCTGCAGGAGGAGCTGGCTTTCAGCAAGAGTGTGTTTGAGGAGGAGGTACGGGAG
ACCCGACGGAGGCACGAGCGGCGCTTGGTGGAGGTGGACAGCAGCCGGCAACAGGAATATGACTTCAAGA
TGGCTCAGGCCCTGGAGGACCTGCGCAGTCAGCACGATGAGCAAGTGCGCCTGTACCGGGTAGAACTGGA
GCAGACCTACCAGGCCAAGCTGGACAACGCCAAGCTGCTCTCGGACCAGAATGACAAGGCAGCCCATGCA
GCCCGCGAGGAGCTCAAGGAGGCCCGCATGCGCGTGGAGTCCCTCAGCTACCAGCTTTTAGGCCTCCAAA
AGCAGGCCAGTGCTGCAGAGAACCACATCCATGAGCTGGAGGAGGCCTTGGCTGGGGAGCGTGACAAGTT
CCGCAAGATGCTGGACGCTAAGGAACAGGAGATGACGGAGGTGCGGGACGCCATGCAGCAGCAGCTGGCA
GAGTACCAAGAGCTGCTGGACATTAAGCTGGCCCTGGACATGGAGATAAGCGCCTACCGCAAGCTGCTGG
AGGGCGAGGAGGAGAGGCTGAAGCTGTCTCCCAGCCCTTCATCACGGATCACCATCTCTCGGGCCACATC
GAGCAGCAGCAGCAGCAGCGGGGTTGGCATGTCTGTGGGCCAGGGCCGGGGCAAGCGCCGGCGGCTGGAG
ACTGAGGACACCTCAGGCTCACCCAGCAGGGCTTCCAGAGTGAGCAGCGGCTCCCGCCTGGCTCAGCAGA
CTGTGGCCACGGGTGTTGTGAACATCGACGAGGTGGACCCAGAGGGCAGGTTCGTGCGCCTTAAGAACTC
TTCAGACAAGGACCAGTCTTTGGGGAACTGGAGGATCAAGAGACAGGTTCTGGAGGGTGAGGACATTGCC
TACAAGTTCACACCCAAGTATGTCCTGCGGGCCGGCCAGACTGTCACGGTGTGGGCAGCTGGCGCAGGGG
CTACCCACAGTCCCCCATCAACCCTTGTGTGGAAAAGCCAGACCAACTGGGGCCCTGGGGAGAGCTTCCG
CACTGCCCTGGTCAGTGCCGACGGTGAGGAGGTGGCCGTGAAGGCTGCAAAGCACTCATCTGTCCAGGGG
AGGGAGAACGGGGAAGAGGAGGAAGAGGAAGAGGCAGAATTCGGTGAAGAGGACCTCTTCCACCAGCAGG
GGGACCCAAGGACTACCTCAAGGGGCTGCCGACTGATGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-RsrII

ACCN: NM_010722

Insert Size: 1791 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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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_010722.5, NP_034852.3
RefSeq Size:	3389 bp
RefSeq ORF:	1848 bp
Locus ID:	16907
UniProt ID:	P21619
Cytogenetics:	10 39.72 cM
Gene Summary:	This gene encodes a protein component of the nuclear lamina, which provides a structural framework for the nuclear envelope. Defects in this gene were found to cause abnormalities in the shape of neurons. This locus represents one of two B-type lamin genes that may be partially, but not entirely, functionally redundant in neuronal development. Loss of both B-type lamin genes in keratinocytes results in ichthyosis and a skin barrier defect leading to dehydration. Alternative transcriptional initiation and splicing results in multiple transcript variants and protein isoforms, including an isoform with a shorter N-terminal rod domain that may function in nuclear envelope remodeling during spermatogenesis. A related pseudogene is found on chromosome 5. [provided by RefSeq, Sep 2017] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: An in-frame AUG is located 19 codons upstream of the annotated translation start site but is not being annotated as a start site since it is in a weak Kozak sequence context and is probably too close to the 5' end of the transcript to be used as a translation start site. CCDS Note: The coding region has been updated to start at an alternate in-frame start codon that is more supported by available transcript data.

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