

Product datasheet for **MR209436**

Lmnb2 (NM_010722) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR209436 representing NM_010722
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCTCTGCCGCCACGCGGGGCCACGCGCTGTGCCACGCGTCTGTCTCGGCTGCAGG
 AGAAGGAGGAGCTCCGTGAGCTCAACGACCGCCTGGCACACTACATCGACCGTGTCCGCGCTGGAGCT
 GGAGAATGATAGTTGCTGCTCCGGATCTCCGAGAAGGAGGAGGTGACCACTCGCGAGGTGAGTGGCATC
 AAGACCTGTACGAGTCAGAGCTGGCTGACGCCGACGGTACTGGATGAGACGGCCGTGAACGTGCC
 GGCTGCAGATTGAAATTGGAAAGGTGCAGGCTGAGCTAGAGGAGGCCAGGAAGAGTGCCAAGAAGCGGGA
 AGGTGAGCTCACAGTGGCCAGGCGGAGTGAAGGATCTGGAATCACTGTTTCACCGGAGTGAGGCTGAG
 CTGGCCACAGCCCTCAGTGACAAGCAGGGCCTGGAGACAGAGGTGGCAGAGCTTCGAGCACAGCTGGCCA
 AGGCAGAAGATGGTCATGCTGTGGCCAAGAAGCAGTTGGAGAAGGAGACGCTGATGCGTGTGGACCTGGA
 GAACCGATGCCAGAGCCTGCAGGAGGAGCTGGCTTTCAGCAAGAGTGTGTTTGAGGAGGAGTACGGGAG
 ACCCGACGGAGGCACGAGCGGCGTTGGTGGAGGTGGACAGCAGCCGGAACAGGAATATGACTTCAAGA
 TGGCTCAGGCCCTGGAGGACCTGCGCAGTCAGCACGATGAGCAAGTGCGCCTGTACCGGGTGAAGTGGGA
 GCAGACCTACCAGGCCAAGCTGGACAACGCCAAGCTGCTCTCGGACCAGAATGACAAGGCAGCCATGCA
 GCCCGGAGGAGCTCAAGGAGGCCCGCATGCGCGTGGAGTCCCTCAGCTACCAGCTTTTAGGCCCTCAAAA
 AGCAGGCCAGTGTGCAGAGAACCACATCCATGAGCTGGAGGAGGCCCTGGCTGGGGAGCGTGACAAGTT
 CCGCAAGATGCTGGACGTAAGGAACAGGAGATGACGGAGGTGCGGGACGCCATGCAGCAGCAGCTGGCA
 GAGTACCAAGAGTGTGGACATTAAGCTGGCCCTGGACATGGAGATAAGCGCCTACCGCAAGCTCTGG
 AGGGCAGGAGGAGGAGGCTGAAGCTGTCTCCAGCCCTCATCACGGATCACCATCTCTCGGGCCATC
 GAGCAGCAGCAGCAGCAGCGGGGTTGGCATGTCTGTGGGCCAGGGCCGGGCAAGCGCCGGCGGCTGGAG
 ACTGAGGACACCTCAGGCTCACCCAGCAGGGCTTCCAGAGTGAGCAGCGGCTCCCGCCTGGCTCAGCAGA
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 TTCAGACAAGGACCAGTCTTTGGGGAAGTGGAGGATCAAGAGACAGGTTCTGGAGGGTGAGGACATTGCC
 TACAAGTTCACACCCAAGTATGCTCTGCGGGCCGGCCAGACTGTCACGGTGTGGGACGCTGGCGCAGGGG
 CTACCCACAGTCCCCATCAACCCTTGTGTGAAAAGCCAGACCAACTGGGGCCCTGGGAGAGCTTCCG
 CACTGCCCTGGTCACTGCCGACGGTGGAGGTTGGCCGTGAAGGCTGCAAAGCACTCATCTGTCCAGGGG
 AGGGAGAACGGGAAGAGGAGGAAGAGGAAGAGGCAGAATTCGGTGAAGAGGACCTTCCACCAGCAGG
 GGGACCAAGGACTACCTCAAGGGCTGCCGACTGATG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209436 representing NM_010722
 Red=Cloning site Green=Tags(s)

MASLPPHAGPATPLSPTRLRLQKEELRELNDRLAHYIDRVRALELENDRLLLRISEKEEVTREVSIGI
 KTYESELADARRVLDLDEARERARLQIEIGKVQAELEEARSAKAKREGELTVAQGRVKDLESLFHRSEAE
 LATALSDKQGLETEVAELRAQLAKAEDGHAVAKKQLEKETLMRVDLENRCQSLQEELAFSKSVFEEVRE
 TRRRHERRLVEVDSSRQQEYDFKMAQALDLRSQHDEQVRLYRVELEQTYQAKLDNAKLLSDQNDKAAHA
 AREELKEARMRVESLSYQLLGLQKQASAAENHIEHEEALAGERDKFRKMLDAKEQEMTEVRDAMQQQLA
 EYQELLDIKLALDMEISAYRKLLEGEERLKLSPSPSSRITISRATSSSSSSSGVGMSSVGGQGRKRRRLE
 TEDTSGSPSRASRVSSGRLAQQTVATGVVNIDEVDPGRFVRLKNSSDKDQSLGNWRIKRVLEGEDIA
 YKFTPKYVLRAGQTVTVAAAGAGATHSPSTLVWKSQTNWGPGESEFRALTALSADGEEVAVKAAKHSVQG
 RENGEEEEEEAEFGEDLFHQQDPRRTSRGCRML

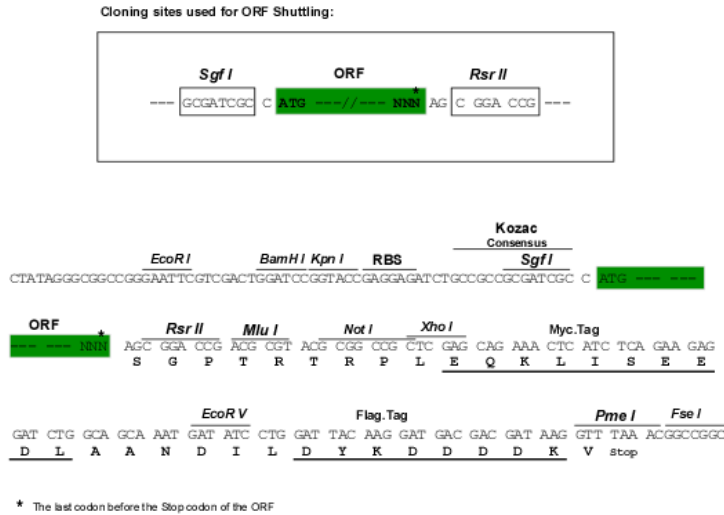
SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9075_f07.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_010722

ORF Size: 1788 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_010722.5](#), [NP_034852.3](#)

RefSeq Size: 3389 bp

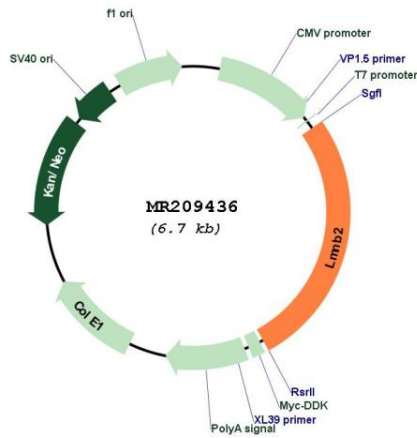
RefSeq ORF: 1848 bp

Locus ID: 16907

UniProt ID: [P21619](#)
Cytogenetics: 10 39.72 cM
MW: 67.3 kDa

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]

Product images:



Circular map for MR209436