

Product datasheet for **SC106163**

Lamin B2 (LMNB2) (BC006551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lamin B2 (LMNB2) (BC006551) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lamin B2
Synonyms:	LAMB2; lamin B2; LMN2; MGC2721
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC106163 sequence for BC006551 edited (data generated by NextGen Sequencing)

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ATGGCCACGCCGCTGCCCGGCCGCGCGGGCGGGCCCGCCACGCCGCTGTCGCCCACGCGC
CTGTGCGCGGCTGCAGGAGAAGGAGGAGCTGCGCGAGCTCAACGACCGCTGGCGCACTAC
ATCGACCCGCTCCGCGCGCTGGAGCTGGAGAACGACCGGCTCCTGCTCAAGATCTCAGAG
AAGGAGGAGGTGACCACGCGGAGGTGAGTGGCATCAAGGCGCTGTACGAGTCGGAGCTG
GCCGATGCCCGGAGAGTCTGGATGAGACGGCTCGAGAGCGTGCCCGGCTGCAGATAGAG
ATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGCGCCAAGAAGAGGGAGGGC
GAGCTTACGCTGCCCCAGGGCCGTGTAAGGACCTGGAGTCCCTGTTCCACCGGAGCGAG
GTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCTGGAGAGTGACGTGGCTGAGCTG
CGGGCCAGCTGGCCAAGGCCGAGGACGGTCATGCAGTGGCCAAAAGCAGCTGGAGAAG
GAGACGCTGATGCGTGTGGACCTGGAGAACCGCTGCCAGAGCCTGCAGGAGGAGCTGGAC
TTCCGGAAGAGTGTGTTGAGGAGGAGGTGCGGGAGACGCGGGCGGCGCACGAGCGGCGC
CTGGTGGAGGTGGACAGCAGCCGCGCAGGAGTACGACTTCAAGATGGCACAGGCGCTG
GAGGAGCTGCGGAGCCAGCACGACGAGCAAGTGGCGCTCTACAAGCTGGAGCTGGAGCAG
ACCTACAGGCCAAGCTGGACAGCGCCAAGCTGAGCTCTGACCAGAACGACAAGGCGGCC
AGTGCGGCTCGCGAGGAGCTGAAGGAGGCCCGCATGCGCCTGGAGTCCCTCAGCTACCAG
CTCTCCGGCTCCAGAAGCAGGCCAGTGGCGTGAAGATCGCATTGCGGAGCTGGAGGAG
GCCATGGCCGGGAGCGGGACAAGTTCCGGAAGATGCTGGACGCCAAGGAGCAGGAGATG
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AAGCTGGCCCTGGACATGGAGATCAACGCCTACCGGAAGCTCCTGGAGGGCGAGGAGGAG
AGGCTGAAGCTGTCCCCAGCCATCCTCGCGGTCACCGTCTCACGAGCCACCTCGAGC
AGCAGCGGCAGCTTGTCCGCCACCGGGCGCTGGGCCGAGTAAGCGGAAGCGGCTGGAG
GTGGAGGAGCCCTTGGGACGCGGCCAAGCGTCTGGGCACGGGCACGGGTGGCAGCGGT
GGCTTCCACCTGGCCAGCAGGCCTCGGCCTCGGGCAGCGTCAGCATCGAGGAGATCGAC
CTGGAGGGCAAGTTTGTGCACTCAAGAACAACCTCGGACAAGGATCAGTCTCTGGGGAAC
TGGAGAATCAAGAGGCAGGTCTTGGAGGGGAGGAGATCGCCTACAAGTTCACGCCCAAG
TACATCTGCGCGCCGGCCAGATGGTCACGGTGTGGCAGCTGGTGGGGGTGGCCAC
AGCCCCCTCGACGCTGGTGTGGAAGGGCCAGAGCAGCTGGGGCACGGGCGAGAGCTTC
CGCACCGTCTGGTTAACGCGGATGGCGAGGAAGTGGCCATGAGGACTGTGAAGAAGTCC
TCGGTGTGCGTGAGAATGAGAATGGGGAGGAAGAGGAGGAGGAAGCCGAGTTTGGCGAG
GAGGATCTTTCCACCAACAGGGGACCCGAGGACCACCTCAAGAGGCTGCTACGTGATG
TGA
    
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Clone variation with respect to BC006551.2
1356 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for BC006551 unedited
 ACGTCANCATTTGTATACGACNACTATAGGGCGGCCGCGATTTCGGCACCAGGGATTGAAT
 GAGCCCGCCGAGCCCGGGCCGCCGTGCGGAGCAGCGCATGCCGCGAGCCGCCACCAT
 GGCCACGCCGCTGCCCGGCCGCGGGCCGCCACGCCGCTGTGCCACCGCGCT
 GTCGCGGCTGCAGGAGAAGGAGGAGCTGCGCGAGCTCAACGACCCGCTGGCGACTACAT
 CGACCCGCTCCGCGCGCTGGAGCTGGAGAACGACCCGCTCCTGCTCAAGATCTCAGAGAA
 GGAGGAGGTGACCACGCGGAGGTGAGTGGCATCAAGGCGCTGTACGAGTCGGAGCTGGC
 CGATGCCCGGAGAGTCTGGATGATACGGCTCGAGAGCGTGCCCGGCTGCAGATAGAGAT
 TGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGCGCCAAGAAGGGGAGGGCGA
 GCTTACGGTGGCCAGGGCCGTGTGAAGGACCTGGAGTCCCTGTTCCACCGGAGCGAGGT
 GGAGCTGGCAGCTGCCCTCATCGACAAGCGCGGCTGGAGAGTGACGTGGCTGATCTGCG
 GGCCAGCTGGCAAGGCCGATGACGGTATGACGTGGCCAAAAGCAGCTGGAGAATGA
 GACGCTGATGCGTGTGGACCTGGAGAACCCTGCCAGAGCCTGCATGATGAGCTGGACTT
 CCGGAATATTGTTCNATGATGATGTGCGGGATACNCNGCGCGCACGATCGGCGCT
 GGTGGATGTGGACAGCATCCGGCAGCATGAGTACGACTTCAAGATGCACATGCGCTGGAT
 GATCTGCGAGCCAGCAGACNAGCCAGTGCAGCTTACAGCTGGAGCTGGAGCAGACCT
 ACCAGCCAGCTGGCAGGCCAGCTGAGCTCTGACAA

3' Read Nucleotide Sequence:

>OriGene 3' read for BC006551 unedited
 CTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTGATATAAAAATAGTTTTTCAGTGGCTC
 TGGGTAAGAAAGTGTGTGGATGAAGAGTGTGGTTTACATCACGTAGCAGCCTCTTGAG
 GTGGTCTCGGGTCCCCCTGTTGGTGGAAAAGATCCTCCTCGCCAAACTCGGCTTCTCC
 TCCTTCTCCTCCCAATTCTATTCTCACGCATACCGAGGACTTCTTACAGTCCCTCATG
 GCCACTTCTCGCCATCCGCGTTAACCAGGACGGTGCAGGAACTCTCGCCCGTGCCCCAG
 CTGCTCTGGCCCTTCCACACCAGCGTCGAGGGGGGGCTGTGGGCCACCCCGCACCAGCT
 GCCCACACCGTGACCATCTGGCCGGCGCAAGATGTACTTGGGCGTGAACCTGTAGGCG
 ATCTCCTCCCCCTCCAAGACCTGCCTCTTGATTCTCCAGTTCCCCAGAGACTGATCCTTG
 TCCGAGTTGTTCTTGAGCTGCACAACTTGCCCTCCAGGTCGATCCTCGATGCTGACG
 CTGCCCCGAGCCGAGGCTGCTGGGCCAGGTGGAAGCCACCGCTGCCACCCGTGCCCGTG
 CCGCCACGCTTGGCCGCTGCCCAAGGGCTCCTCCACCTCCAGCCGCTTCCGCTTACTG
 CGGCCCAAGCGCCGGTGGCGGACAAGCTGCCGCTGCTGCTCGAGGTGGCTCGTGAGACG
 GTGACGCGCCGAGATGGGCTGGGGGACGCTTTAGCCTCTCCTTCTTCCCTCCAGGAGC
 TTCCGGTAGCGTTGATCTCCATGTCCAAGG

Restriction Sites:

NotI-NotI

ACCN:

BC006551

Insert Size:

2000 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<ol style="list-style-type: none">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:	<u>BC006551.2</u> , <u>AAH06551.1</u>
RefSeq Size:	1943 bp
RefSeq ORF:	1803 bp
Locus ID:	84823
Cytogenetics:	19p13.3
Domains:	IF_tail, filament
Gene Summary:	This gene encodes a B type nuclear lamin. The nuclear lamina consists of a two-dimensional matrix of proteins located next to the inner nuclear membrane. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure and gene expression. Vertebrate lamins consist of two types, A and B. Mutations in this gene are associated with acquired partial lipodystrophy. [provided by RefSeq, May 2012]