

Product datasheet for **SC104069**

Lamin B2 (LMNB2) (NM_032737) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lamin B2 (LMNB2) (NM_032737) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lamin B2
Synonyms:	EPM9; LAMB2; LMN2; MCPH27
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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ATGGCCACGCCGCTGCCCGGCCGCGGGCGGGCCCGCCACGCCGCTGTCGCCCACGCGC
CTGTGCGGGCTGCAGGAGAAGGAGGAGCTGCGCGAGCTCAACGACCGCTGGCGCACTAC
ATCGACCCGCTCCGCGCGCTGGAGCTGGAGAACGACCGGCTCCTGCTCAAGATCTCAGAG
AAGGAGGAGGTGACCACGCGGAGGTGAGTGGCATCAAGGCGCTGTACGAGTCGGAGCTG
GCCGATGCCCGGAGAGTCTGGATGAGACGGCTCGAGAGCGTGCCCGGCTGCAGATAGAG
ATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGCGCCAAGAAGAGGGAGGGC
GAGCTTACGCTGCCCCAGGGCCGTGTAAGGACCTGGAGTCCCTGTTCCACCGGAGCGAG
GTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCTGGAGAGTGACGTGGCTGAGCTG
CGGGCCCAGCTGGCCAAGGCCGAGGACGGTCATGCAGTGGCCAAAAGCAGCTGGAGAAG
GAGACGCTGATGCGTGTGGACCTGGAGAACCGCTGCCAGAGCCTGCAGGAGGAGCTGGAC
TTCCGGAAGAGTGTGTTGAGGAGGAGGTGCGGGAGACGCGGGCGGCGCACGAGCGGCGC
CTGGTGGAGGTGGACAGCAGCCGCGCAGGAGTACGACTTCAAGATGGCACAGGCGCTG
GAGGAGCTGCGGAGCCAGCACGAGCAGCAAGTGGCGCTCTACAAGCTGGAGCTGGAGCAG
ACCTACAGGCCAAGCTGGACAGCGCCAAGCTGAGCTCTGACCAGAACGACAAGGCGGCC
AGTGCGGCTCGCGAGGAGCTGAAGGAGGCCCGCATGCGCCTGGAGTCCCTCAGCTACCAG
CTCTCCGGCTCCAGAAGCAGGCCAGTGGCGTGAAGATCGCATTGCGGAGCTGGAGGAG
GCCATGGCCGGGAGCGGGACAAGTTCCGGAAGATGCTGGACGCCAAGGAGCAGGAGATG
ACGGAGATGCGGGACGTGATGCAGCAGCAGCTGGCCGAGTACCAGGAGCTGCTGGACGTG
AAGCTGGCCCTGGACATGGAGATCAACGCCTACCGGAAGCTCCTGGAGGGCGAGGAGGAG
AGGCTGAAGCTGTCCCCAGCCATCCTCGCGCGTCACCGTCTCACGAGCCACCTCGAGC
AGCAGCGGCAGCTTGTCCGCCACCGGGCGCTGGGCCGAGTAAGCGGAAGCGGCTGGAG
GTGGAGGAGCCCTTGGGACGCGGCCAAGCGTCTGGGCACGGGCACGGGTGGCAGCGGT
GGCTTCCACCTGGCCAGCAGGCCCTCGGCTCGGGCAGCGTCAGCATCGAGGAGATCGAC
CTGGAGGGCAAGTTTGTGCGAGCTCAAGAACAACCTCGGACAAGGATCAGTCTCTGGGGAAC
TGGAGAATCAAGAGGCAGGTCTTGGAGGGGGAGGAGATCGCCTACAAGTTCACGCCCAAG
TACATCTGCGCGCCGGCCAGATGGTCACGGTGTGGCAGCTGGTGGGGGGTGGCCAC
AGCCCCCTCGACGCTGGTGTGGAAGGGCCAGAGCAGCTGGGGCACGGGCGAGAGCTTC
CGCACCGTCTGGTTAACCGGATGGCGAGGAAGTGGCCATGAGGACTGTGAAGAAGTCC
TCGGTGTGCGTGAAGATGAGAATGGGGAGGAAGAGGAGGAGGAAGCCGAGTTTGGCGAG
GAGGATCTTTTCCACCAACAGGGGGACCCGAGGACCACCTCAAGAGGCTGCTACGTGATG
TGA
    
```

Clone variation with respect to BC006551.2
1356 t=>c

- Restriction Sites:** NotI-NotI
- ACCN:** NM_032737
- Insert Size:** 207 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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>NM_032737.1</u> , <u>NP_116126.1</u>
RefSeq Size:	1665 bp
RefSeq ORF:	207 bp
Locus ID:	84823
UniProt ID:	<u>Q03252</u>
Cytogenetics:	19p13.3
Domains:	IF_tail, filament
Gene Summary:	<p>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]</p>