

Product datasheet for **RG200807**

Lamin B2 (LMNB2) (NM_032737) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Lamin B2
Synonyms:	EPM9; LAMB2; LMN2; MCPH27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG200807 representing NM_032737
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCACGCCGCTGCCGGCCGCGCGGGCGGCCCGCCACGCCGCTGTCGCCACGCGCCTGTCGCGGC
 TGCAGGAGAAGGAGGAGCTGCGCGAGCTCAACGACCGCTGGCGCACTACATCGACCGCTCCGCGCGCT
 GGAGCTGGAGAACGACCGGCTCCTGCTCAAGATCTCAGAGAAGGAGGAGGTGACCACGCGCGAGGTGAGT
 GGCATCAAGGCGCTGTACGAGTCGGAGCTGGCCGATGCCCGGAGAGTCTGGATGAGACGGCTCGAGAGC
 GTGCCCGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGCGCCAAGAA
 GAGGGAGGGCGAGCTTACGGTGGCCAGGGCCGTGTGAAGGACCTGGAGTCCCTGTTCCACCGGAGCGAG
 GTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCCTGGAGAGTGACGTGGCTGAGCTGCGGGCCAGC
 TGGCCAAGGCCGAGGACGCTCATGCAGTGGCCAAAAGCAGCTGGAGAAGGAGACGCTGATGCGTGTGGA
 CCTGGAGAACCCTGCCAGAGCCTGCAGGAGGAGCTGGAATTCGGAAGAGTGTGTTGAGGAGGAGGTG
 CGGGAGACGCGCGCGGCACGAGCGCGCCTGGTGGAGGTGGACAGCAGCCGCGCAGCAGGAGTACGACT
 TCAAGATGGCACAGGCGCTGGAGGAGCTGCGGAGCCAGCAGCAGCAAGTGGCGCTCTACAAGCTGGA
 GCTGGAGCAGACCTACCAGGCCAAGCTGGACAGCGCCAAGCTGAGCTCTGACCAAGACGACAAGGCGGCC
 AGTGGCGCTCGCGAGGAGCTGAAGGAGGCCCGCATGCGCTGGAGTCCCTCAGCTACCAGCTCTCCGGCC
 TCCAGAAGCAGGCCAGTGCCGCTGAAGATCGCATTGCGGAGCTGGAGGAGGCCATGGCCGGGAGCGGGA
 CAAGTTCGGAAGATGCTGGACGCCAAGGAGCAGGAGATGACGGAGATGCGGGACGTGATGCAGCAGCAG
 CTGGCCGAGTACCAGGAGCTGCTGGACGTGAAGCTGGCCCTGGACATGGAGATCAACGCCTACCGGAAGC
 TCCTGGAGGCGGAGGAGAGGCTGAAGCTGTCCCCAGCCCATCTCGCGCTCACCGTCTCACGAGC
 CACCTCGAGCAGCAGCGGCAGCTTGTCCGCCACCGGGCGCCTGGGCGCAGTAAGCGGAAGCGGCTGGAG
 GTGGAGGAGCCCTTGGGCGAGCGGCCAAGCGCTCCTGGGCACGGGCACGGGTGGCAGCGGTGGCTTCCACC
 TGGCCAGCAGGCCCTCGGCCTCGGGTAGCGTCAGCATCGAGGAGATCGACCTGGAGGGCAAGTTTGTGCA
 GCTCAAGAACTCGGACAAGGATCAGTCTCTGGGAACTGGAGAATCAAGAGGCAAGTCTTGGAGGGG
 GAGGAGATCGCCTACAAGTTCACGCCCAAGTACATCCTGCGCGCCGCCAGATGGTCAAGGTGTGGCGAG
 CTGGTTCGGGGGTGGCCACAGCCCCCTCGACGCTGGTGTGAAGGGCCAGAGCAGCTGGGGCACGGG
 CGAGAGCTTCCGACCGTCTGTGTTAACCGGATGGCGAGGAAGTGGCCATGAGGACTGTGAAGAAGTCC
 TCGGTGATGCGTGAGAATGAGAATGGGAGGAAGAGGAGGAAGCCGAGTTTGGCGAGGAGGATCTTT
 TCCACCAACAGGGGACCCGAGGACCCTCAAGAGGCTGCTACGTGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200807 representing NM_032737
 Red=Cloning site Green=Tags(s)

MATPLPGRAGGPATPLSPTRLRLQKEELRELNDRLAHYIDRVRALELENDRLLLKISEKEEVTREVS
 GIKALYESELADARRVLDETARERARLQIEIGKLRAELDEVNKSAKKREGELTVAQGRVKDLESFHRSE
 VELAAALSDKRGLESVAELRAQLAKAEDGHAVAKKQLEKETLMRVDLENRCQSLQEELDFRKSVEEEV
 RETRRRHERRLVEVDSSRQQYDFKMAQALEELRSQHDEQVRLYKLELEQTYQAKLDSAKLSSDQNDKAA
 SAAREELKEARMRLSLSYQLSGLQKQASAAEDRIREEEAMAGERDKFRKMLDAKEQEMTEMRDVYMQQ
 LAEYQELLDVKLALDMEINAYRKLLGEEERLKLSPSPSSRVTVSRATSSSSGSLSATGRLGRSKRKRLE
 VEEPLGSGPSVLGTGTGSGGFHLAQASASGSVIEEIDLEGKFVQLKNNSDKDQSLGNWRIKRVLEG
 EEIAYKFTPKYILRAGQMTVWAAGAGVAHSPSTLVWKGQSSWGTGESFRTLVDNADGEEVAMRTVKKS
 SVMRENENGEEEEAEFGEDLFHQGDPRRTTSRGCYVM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032737

ORF Size: 1800 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.

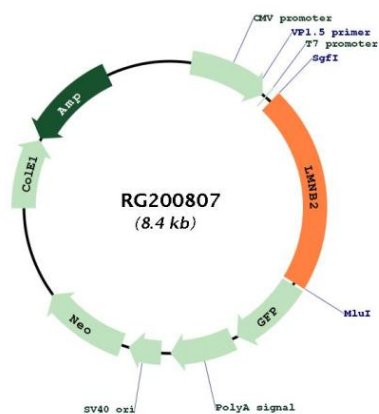
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_032737.2, NP_116126.2</u>
RefSeq Size:	4653 bp
RefSeq ORF:	1863 bp
Locus ID:	84823
UniProt ID:	<u>Q03252</u>
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]

Product images:



Circular map for RG200807