

Product datasheet for **RC230816**

Lamin B1 (LMNB1) (NM_001198557) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Lamin B1 (LMNB1) (NM_001198557) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Lamin B1 |
| Synonyms: | ADLD; LMN; LMN2; LMNB; MCPH26 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC230816 representing NM_001198557
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGACTGCGACCCCCGTGCCCGCCGGATGGCGACCCGCGCTGGCGGCCACCACGCCGCTGAGCC
 CCACGCGCTGTCGCGGCTCCAGGAGAAGGAGGAGCTGCCGAGCTCAATGACCGGCTGGCGGTGTACAT
 CGACAAGGTGCGCAGCCTGGAGACGGAACAGCGCGCTGCAGCTGCAGGTGACGGAGCGGAGGAGGTG
 CGCGGCCGTGAGCTACCGGCTCAAGGCGCTCTACGAGACCGAGCTGGCCGACGCGCAGCGCGCTCG
 ACGACACGGCCCGCAGCGCCAAAGCTGCAGATCGAGCTGGCAAGTGAAGGCGGAACACGACCAGCT
 GCTCCTCAACTATGCTAAGAAGGAATCTGATCTTAATGGCGCCAGATCAAGCTTCGAGAATATGAAGCA
 GCACTGAATCGAAAGATGCAGCTCTTGCTACTGCACTTGGTGACAAAAAAGTTTAGAGGGAGATTTGG
 AGGATCTGAAGGATCAGATTGCCAGTTGGAAGCCTCCTAGCTGCAGCCAAAAACAGTTAGCAGATGA
 AACTTTACTTAAAGTAGATTTGGAGAATCGTTGTGAGGCCTTACTGAGGACTTGGAGTTTCGAAAAAGC
 ATGTATGAAGAGGAGATTAACGAGACCAGAAGGAAGCATGAAACGCGCTTGGTAGAGGTGGATTCTGGGC
 GTCAAATTGAGTATGAGTACAAGCTGGCGCAAGCCCTTCATGAGATGAGAGAGCAACATGATGCCAAAGT
 GAGGCTGTATAAGGAGGAGCTGGAGCAGACTTACCATGCCAAACTTGAGAATGCCAGACTGTCATCAGAG
 ATGAATACTTCTACTGTCAACAGTGCCAGGGAAGAAGTATGAAAGCCGCATGAGAATTGAGAGCCTTT
 CATCCCAGCTTTCTAATCTACAGAAAGAGTCTAGAGCATGTTTGGAAAGGATTCAAGAATTAGAGGACTT
 GCTTGCTAAAGAAAAAGACAACCTCTCGTCGCATGCTGACAGACAAAGAGAGAGAGATGGCGGAAATAAGG
 GATCAAATGCAGCAACAGCTGAATGACTATGAACAGCTTCTTGATGTAAGTTAGCCCTGGACATGGAAA
 TCAGTGTACAGGAACTCTTACAAGGCGAAGAAGAGAGGTTGAAGCTGTCTCCAAGCCTTCTTCCC
 GTGACAGTATCCCGAGCATCCTCAAGTCGTAGGTACGTACAACCTAGAGGAAAGCGGAAGAGGTTGAT
 GTGGAAGAATCAGAGGCGAGTAGTAGTGTAGCATCTCTCATTCCGCTCAGCCACTGGAATGTTTGCA
 TCGAAGAAATTGATGTTGATGGGAAATTTATCCGCTTGAAGAACACTTCTGAACAGGATCAACCAATGGG
 AGGCTGGGAGATGATCAGAAAAATTGGAGACACATCAGTCAGTTATAAATATACCTCAAGATATGTGCTG
 AAGGCAGGCCAGACTGTTACAATTTGGGCTGCAAACGCTGGTGTACAGCCAGCCCCCAACTGACCTCA
 TCTGGAAGAACCAGAACCTGTGGGCACTGGCGAAGATGTGAAGTTATATTGAAAAATTCTCAGGGAGA
 GGAGTTGCTCAAAGAAGTACAGTCTTTAAAACAACCATACCTGAAGAAGAGGAGGAGGAAGAAGCA
 GCTGGAGTGGTTGTTGAGGAAGAACTTTCCACCAGCAGGGAACCCCAAGAGCATCCAATAGAAGCTGTG
 CAATTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230816 representing NM_001198557
 Red=Cloning site Green=Tags(s)

MATATPVPPRMSRAGGPTTPLSPTRL SRLQEKEELRELNDR LAYVIDKVRSL ETENSALQLQVTEREEV
 RGREL TGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLLNYAKKESDLNGAQIKLREYEA
 ALNSKDAALATALGDKKSLEGLDLDKQIAQLEASLAAAKQLADETL LKVDLENRCQSLTEDLEFRKS
 MYEEEEINETRKHETRLVEVDSGRQIEYKLAQALHEMREQHDAQVRLYKEELEQTYHAKLENARLSSE
 MNTSTVNSAREELMESRMRIE SSSQLSNLQKESRACLERIQELEDLLAKEKDNSRRMLTDKEREMAEIR
 DQMQQQLNDYEQLLDVKLALDMEISAYRKL LQGEERLKLSPSPSSRVTVSRASSRSVRTTRGKRKRVD
 VESEASSSVSISHSASATGNVICIEIDVDGKFI RLKNTSEQDQPMGGWEMIRKIGDTSVSYKYTSRYVL
 KAGQVTIWAANAGVTASPP TDLIWKNNQSWGTGEDVKVILKNSQGEVAQRSTVFKTTIPEEEEEEEEE
 AGVVVEEELFHQQGTPRASNRSCAIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001198557

ORF Size: 1761 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_001198557.1](#), [NP_001185486.1](#)

RefSeq Size: 2267 bp

RefSeq ORF: 1131 bp

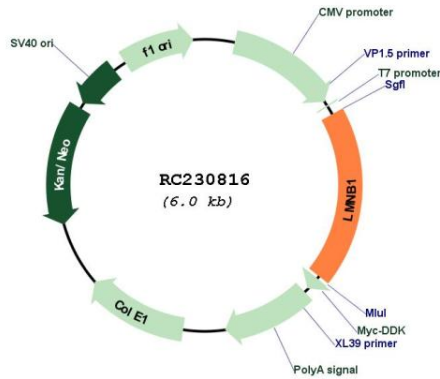
Locus ID: 4001

Cytogenetics: 5q23.2

MW: 66.4 kDa

Gene Summary: This gene encodes one of the two B-type lamin proteins and is a component of the nuclear lamina. A duplication of this gene is associated with autosomal dominant adult-onset leukodystrophy (ADLD). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RC230816