

Product datasheet for **SC116661**

Lamin B1 (LMNB1) (NM_005573) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lamin B1 (LMNB1) (NM_005573) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lamin B1
Synonyms:	ADLD; LMN; LMN2; LMNB; MCPH26
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 SC116661 sequence for NM_005573 edited (data generated by NextGen Sequencing)

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ATGGCGACTGCGACCCCCGTGCCGCCGGATGGGCAGCCGCGCTGGCGGCCACCACG
CCGCTGAGCCCCACGCGCCTGTCGCGGCTCCAGGAGAAGGAGGAGCTGCGCGAGCTCAAT
GACCGGCTGGCGGTGTACATCGACAAGGTGCGCAGCCTGGAGACGGAGAACAGCGCGTG
CAGCTGCAGGTGACGGAGCGGAGGAGGTGCGCGCCGTGAGCTACCGGCCCAAGGCG
CTCTACGAGACCGAGCTGGCCGACGCGGACGCGCGCTCGACGACACGGCCCCGAGCGC
GCCAAGCTGCAGATCGAGCTGGGCAAGTGAAGCGGAACACGACCAGCTGCTCCTCAAC
TATGCTAAGAAGGAATCTGATCTTAATGGCGCCAGATCAAGCTTCGAGAATATGAAGCA
GCACTGAATTCGAAAGATGCAGCTCTTGCTACTGCACTTGGTGACAAAAAAGTTTAGAG
GGAGATTTGGAGGATCTGAAGGATCAGATTGCCAGTTGGAAGCCTCCTTAGCTGCAGCC
AAAAACAGTTAGCAGATGAACTTTACTTAAAGTAGATTTGGAGAATCGTTGTCAGAGC
CTTACTGAGGACTTGGAGTTTCGAAAAGCATGTATGAAGAGGAGATTAACGAGACCAGA
AGGAAGCATGAAACGCGCTTGGTAGAGGTGGATTCTGGGCGTCAAATTGAGTATGAGTAC
AAGCTGGCGCAAGCCCTTCATGAGATGAGAGAGCAACATGATGCCAAGTGAGGCTGTAT
AAGGAGGAGCTGGAGCAGACTTACCATGCCAACTTGAGAATGCCAGACTGTCATCAGAG
ATGAATACTTCTACTGTCAACAGTGCCAGGGAAGAACTGATGGAAAGCCGCATGAGAATT
GAGAGCCTTTCATCCCAGCTTTCTAATCTACAGAAAAGAGTCTAGAGCATGTTTGGAAAGG
ATTCAGAATTAGAGGACTTGCTTGCTAAAGAAAAAGCAACTCTCGTCGCATGCTGACA
GACAAAGAGAGAGAGATGGCGGAAATAAGGGATCAATGCAGCAACAGCTGAATGACTAT
GAACAGCTTCTTGATGTAAGTTAGCCCTGGACATGGAATCAGTGCTTACAGGAAACTC
TTAGAAGCGAAGAAGAGAGGTTGAAGTGTCTCAAGCCCTTCTCCCGTGTGACAGTA
TCCCGAGCATCCTCAAGTCGTAGTGTACGTACAAGTGAAGGAAAGCGGAAGAGGGTTGAT
GTGGAAGAATCAGAGGCGAGTAGTGTAGTGTAGCATCTCTCATTCCGCTCAGCCACTGGA
AATGTTTGCATCGAAGAAATTGATGTTGATGGGAAATTTATCCGCTTGAAGAACACTTCT
GAACAGGATCAACCAATGGGAGGCTGGGAGATGATCAGAAAAATTGGAGACACATCAGTC
AGTTATAAATATACCTCAAGATATGTGCTGAAGGCAGGCCAGACTGTTACAATTTGGCT
GCAAACGCTGGTGTACAGCCAGCCCCCAACTGACCTCATCTGGAAGAACCAGAACTCG
TGGGGCACTGGCGAAGATGTGAAGTTATATTGAAAAATTCTCAGGGAGAGGAGTTGCT
CAAAGAAGTACAGTCTTTAAAACAACCATACCTGAAGAAGAGGAGGAGGAAGAAGCA
GCTGGAGTGGTTGTTGAGGAAGAACTTTCCACCAGCAGGGAACCCCAAGAGCATCCAAT
AGAAGCTGTGCAATTATGTAA
    
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Clone variation with respect to NM_005573.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005573 unedited
NGGTGTCAACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCAGGAG
ACGGCGCGCGCGGAACCTGCTGGGCCTCCAGTACCCTCGTCTTGATTTTCCCGCGT
CGGTGTGTGAGTGGGTGTGTGTTTTCTTACAAAGGGTATTTCCGCGATCGATCGATTGA
TTCGTAGTTCCCCCGCGCGCCTTTGCCCTTTGTGCTGTAATCGAGCTCCCGCCATCCC
AGGTGCTTCTCCGTTCTCTAAACGCCAGCGTCTGGACGTGAGCGCAGGTCGCCGTTTG
TGCCTTCGGTCCCGCTTCGCCCCCTGCCGTCCCCTCCTATCACGGTCCCGCTCGCGGC
CTCGCCGCCCCGCTGTCTCGCCGCCGCCATGGCGACTGCGACCCCGTGC CGCCGCGG
ATGGGCAGCCGCGCTGGCGGCCACCACGCCGCTGAGCCCCACGCGCTGTCGCGGCTC
CAGGAGAAGGAGGAGCTGCGCGAGCTCAATGACCGGCTGGCGGTGATACGACAAGGTG
CGCAGCCTGGAGACGGAGAACAGCGCGCTGCAGCTGCAGGTGACGGAGCGCGAGGAGGTG
CGCGGCCGTGAGCTACCGGCCTCAAGGCGCTCTACGAGACCGAGCTGGCCGACGCGCA
CGCGCGCTCGACGACACGGCCCGGAGCGGCCAAGCTGCAGATCGAGCTGNGCAAGTGC
AAGGCGGAACACGACCAGCTGCTCCTCAACTATGCTAAGAAGGAATCTGATCTTAATGGC
GCCAGATCAAGCTTCGAGAATATGAGCAGCACTGAATTCGAAGATGCAGCTCTTGCTAC
TGCACTTGGTGACAAAAAAGTTANAGGGAGATTNGGNAGATCTGAANGATCAGATTGCC
CCATTTGGAAGCCTTCTTAGCTGCAGCCAAAAACAGTTT
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005573 unedited GCTATGGACCGCGGCCGCAATCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT CAATATTAAGAGAGCTTTTTTATTTGTTAATGTCACATAAGAAATTAAGCAAGTTACAC TATCTTAAAAACACAACGAATGCATTTAATAGAGAAACCTTCCCTCCCTCCACCTCC CTCCCCACCTCCTCATGAATTAAGAATCTAAGAGAAGAAGTACCATAAAACCAAGTT TTGTGGAATCCATCATCCAGAGTGCTTACATGGGGATTAGGTTAATATTGCCTTCTTACA AAATTTCTATTTTAAAAAAATTATAACCTTGATTGCTTATTACAAAAAAATTCAGTCCA AAAGTTCAATATCTTGAAAAATGCTTTTCCCTCCCTCACAGCACCGTTTTATATATAGC AGAGAATAATGAAGAGATTGCTAGTCTAGATGGGGCAATCTTCAAATTACACCACGACGC ACAGTGGTTTATTACCCTCCCTCCTCCTAAGAACTTAAGAAAAACAAAATACCACCC TCCAAAAAGAGTCAAAAAATTTGAGGAACCCCTCCGAACCGTCCCGTTATTAAGTGCA GTGGCAATAATTCACACCTTGAACAAAGTGTGGGGCCTTGATTTCTTTTACAAAACTT TCCGGGGCAAAAAGAGAATTAGGGCCATCAGATTCGCACTTACTAAATCCCTGAAGGA GAAATTCGAAAAATTCTCGGGCTCTAGAAAGGCCACCCCTGTAGACGGGGAAGGGAAAC CCACCTTCTTTATTTGAGAAAAGCCGGTGAAAATTACGGGCGGGACAGATTTCTCTGG GGCCCGGGGGTCTCCGCGCGANGGAAAGCCGTTTACAAAGACCACGAGAGGGGATGT CCACGCTCAGCTCCTGAGAGCGGTGAATGAAGAACGTGTCGCCTGAATAAGCGGCTAA GACGGATTGTGAGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005573
Insert Size:	2800 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_005573.2</u> , <u>NP_005564.1</u>

RefSeq Size: 2882 bp

RefSeq ORF: 1761 bp

Locus ID: 4001

UniProt ID: [P20700](#)

Cytogenetics: 5q23.2

Domains: IF_tail, filament

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]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.