

## Product datasheet for **RG230816**

### 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:	TurboGFP
Symbol:	LMNB1
Synonyms:	ADLD; LMN; LMN2; LMNB; MCPH26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230816 representing NM\_001198557  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACTGCGACCCCCGTGCCCGCGGATGGCGACCCGCGCTGGCGGCCACCACGCCGTGAGCC  
 CCACGCGCTGTCGCGGCTCCAGGAGAAGGAGGAGCTGCGCGAGCTCAATGACCGCTGGCGGTGTACAT  
 CGACAAGGTGCGCAGCCTGGAGACGGAACAGCGCGCTGCAGCTGCAGGTGACGGAGCGGAGGAGGTG  
 CGCGGCCGTGAGCTCACCGCCTCAAGGCGCTCTACGAGACCGAGCTGGCCGACGCGCAGCGCGCTCG  
 ACGACACGGCCCGCAGCGCCAAAGCTGCAGATCGAGCTGGCAAGTGAAGGCGGAACACGACCAGCT  
 GCTCCTCAACTATGCTAAGAAGGAATCTGATCTTAATGGCGCCAGATCAAGCTTCGAGAATATGAAGCA  
 GCACTGAATTCGAAAGATGCAGCTCTTGTACTGCACTTGGTGACAAAAAAGTTTAGAGGGAGATTTGG  
 AGGATCTGAAGGATCAGATTGCCAGTTGGAAGCCTCCTAGCTGCAGCCAAAAACAGTTAGCAGATGA  
 AACTTTACTTAAAGTAGATTTGGAGAATCGTTGTGAGGCCTTACTGAGGACTTGGAGTTTCGAAAAAGC  
 ATGTATGAAGAGGAGATTAACGAGACCAGAAGGAGCATGAAACGCGCTTGGTAGAGGTGGATTCTGGGC  
 GTCAAATTGAGTATGAGTACAAGCTGGCGCAAGCCCTTCATGAGATGAGAGAGCAACATGATGCCAAAGT  
 GAGGCTGTATAAGGAGGAGCTGGAGCAGACTTACCATGCCAAACTTGAGAATGCCAGACTGTCATCAGAG  
 ATGAATACTTCTACTGTCAACAGTGCCAGGGAAGAAGTATGAAAGCCGCATGAGAATTGAGAGCCTTT  
 CATCCCAGCTTTCTAATCTACAGAAAGAGTCTAGAGCATGTTTGGAAAGGATTCAAGAATTAGAGGACTT  
 GCTTGTAAAGAAAAAGACAACCTCTCGTCGCATGCTGACAGACAAAGAGAGAGAGATGGCGGAAATAAGG  
 GATCAAATGCAGCAACAGCTGAATGACTATGAACAGCTTCTTGATGTAAGTTAGCCCTGGACATGGAAA  
 TCAGTCTTACAGGAACTTTACAAGGCGAAGAAGAGAGGTTGAAGCTGTCTCCAAGCCCTTCTTCCCG  
 GTTGACAGTATCCCGAGCATCCTCAAGTCGTAGTGTACGTACAACCTAGAGGAAAGCGGAAGAGGGTTGAT  
 GTGGAAGAAATCAGAGGCGAGTAGTAGTGTAGCATCTCTCATTCCGCCTCAGCCACTGGAATGTTTGCA  
 TCGAAGAAATTGATGTTGATGGGAAATTTATCCGCTTGAAGAACACTTCTGAACAGGATCAACCAATGGG  
 AGGCTGGGAGATGATCAGAAAAATTGGAGACACATCAGTCAGTTATAAATATACCTCAAGATATGTGCTG  
 AAGGCAGGCCAGACTGTTACAATTTGGGCTGCAAACGCTGGTGTACAGCCAGCCCCCAACTGACCTCA  
 TCTGGAAGAACCAGAACTCGTGGGCACTGGCGAAGATGTGAAGTTATATTGAAAAATTCTCAGGGAGA  
 GGAGTTGCTCAAAGAAGTACAGTCTTTAAAACAACCATACCTGAAGAAGAGGAGGAGGAAGAAGCA  
 GCTGGAGTGGTTGTTGAGGAAGAACTTTCCACCAGCAGGGAACCCCAAGAGCATCCAATAGAAGCTGTG  
 CAATTATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230816 representing NM\_001198557  
 Red=Cloning site Green=Tags(s)

MATATPVPPRMGSRAGGPTTPLSPTRLSRLQEKEELRELNDRLAVYIDKVRSLLETENSALQLQVTEREEV  
 RGRELTGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLLNYAKKESDLNGAQIKLREYEA  
 ALNSKDAALATALGDKKSLEGLDLDKQIAQLEASLAAAKQLADETLKVDLENRCQSLTEDLEFRKS  
 MYEEEEINETRRKHETRLVEVDSGRQIEYKYLAQALHEMREQHDAQVRLYKEELEQTYHAKLENARLSSE  
 MNTSTVNSAREELMESRMRIESLSSQLSNLQKESRACLERIQELEDLLAKEKDNSRMLTDKEREMAEIR  
 DQMQQQLNDYEQLLDVKLALDMEISAYRKLQGEERLKLSPSPSSRVTVSRASSRSVTRTRGKRKRVD  
 VEESEASSSVSISHSASATGNVCIEEIDVDGKFIKNTSEQDQPMGGWEMIRKIGDTSVSYKYTSRYVL  
 KAGQVTIWAANAGVTASPTDLIWKQNQSWGTGEDVKVILKNSQGEVAQRSTVFKTTIPEEEEEEEEA  
 AGVVVEELFHQGTTPRASNRSACIM

**TRTRPLE** – GFP Tag – V

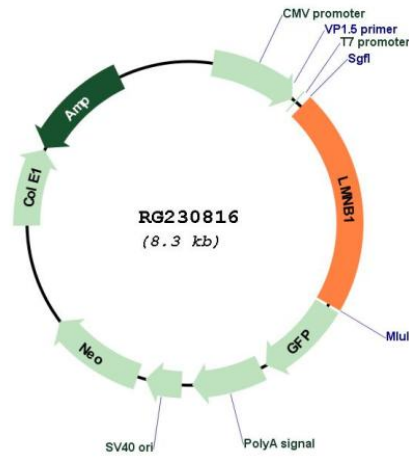
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001198557

ORF Size: 1761 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001198557.1</a> , <a href="#">NP_001185486.1</a>
<b>RefSeq Size:</b>	2267 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	4001
<b>Cytogenetics:</b>	5q23.2
<b>Gene Summary:</b>	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]