OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC107234

LEMD2 (NM_181336) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEMD2 (NM_181336) Human Untagged Clone
Tag:	Tag Free
Symbol:	LEMD2
Synonyms:	CTRCT42; dJ482C21.1; LEM2; MARUPS; NET25
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC107234 sequence for NM_181336 edited (data generated by NextGen Sequencing)

ATGGCCGGCCTGTCGGACCTGGAACTGCGGCGGGAGCTGCAGGCCCTGGGCTTCCAGCCA
GGACCCATCACCGACACCACCCGGGATGTCTACCGCAACAAGCTGCGCCGCCTGCGGGGC
GAGGCCCGGCTGCGCGACGAGGAGCGGCTGCGGGAGGAGGCCCGGCCGCGGGGCGAGGAG
CGGTTACGGGAAGAGGCCCGGTTACGCGAGGATGCGCCGCTGCGCGCCCGGCCCGCCGCG
GCCTCTCCGCGGGCGGAGCCCTGGCTCTCCCAGCCGGCCTCGGGCTCGGCCTACGCGACC
CCTGGGGCCTACGGTGATATCCGGCCCTCCGCGGCTTCCTGGGTAGGGAGCCGCGGCCTC
GCCTATCCTGCCCGCCCGGCGCAACTCAGGCGCCGCGCCTCGGTCCGGGGCAGCTCCGAG
GAGGACGAGGACGCCCGGACGCCCGACAGGGCCACGCAGGGCCCGGGTCTCGCGGCCCGC
CGCTGGTGGGCAGCGTCTCCCGCCCCGGCGCGGCTGCCTTCCTCCCTCCTCGGTCCCGAC
CCGCGCCCGGGCCTGCGGGCGACTCGAGCGGGCCCTGCTGGCGCGGCGAGGGCCCGGCCT
GAGGTGGGGCGCCGGCTGGAGCGCTGGCTCTCTCGGCTTCTGCTCTGGGCCAGCCTAGGG
CTACTGCTCGTCTTCCTGGGCATCCTTTGGGTGAAGATGGGCAAGCCCTCAGCGCCGCAG
GAGGCGGAGGACAACATGAAGTTATTGCCAGTGGACTGTGAGAGAAAAACAGATGAGTTC
TGTCAGGCCAAGCAGAAGGCAGCCTTGCTGGAGCTGCTGCATGAACTCTACAATTTCCTG
GCCATCCAAGCTGGTAATTTTGAGTGTGGAAATCCAGAGAATCTAAAAAGCAAATGCATT
CCTGTTATGGAAGCCCAAGAATATATAGCCAATGTGACCAGCAGCTCCTCCGCCAAGTTT
GAAGCCGCACTGACCTGGATACTGAGCAGTAACAAGGACGTGGGCATCTGGTTGAAAGGA
GAAGACCAGTCTGAATTGGTGACGACTGTGGACAAGGTGGTCTGCCTGGAATCTGCCCAC
CCCCGCATGGGTGTTGGCTGCCGCCTGAGCCGGGCCTTGCTCACTGCTGTCACCAACGTG
CTCATCTTCTTCTGGTGCTTGGCTTTTTTGTGGGGGCTCCTAATTCTCCTAAAATATCGG
TGGCGAAAGTTAGAAGAGGAGGAACAAGCCATGTATGAGATGGTGAAGAAGATTATAGAC
GTGGTCCAGGACCATTACGTGGACTGGGAGCAGGACATGGAGCGCTATCCATATGTAGGC
ATCCTGCACGTGCGCGACAGCTTGATCCCTCCACAGAGCCGGAGGCGCATGAAGCGTGTC
TGGGACCGAGCTGTGGAGTTCCTGGCCTCCAACGAATCCCGGATCCAGACGGAGTCCCAC
CGCGTTGCAGGAGAGGACATGCTGGTGTGGAGATGGACTAAGCCCTCTTCCTTCTCTGAC
TCAGAGCGATAA

Clone variation with respect to NM_181336.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181336 unedited

NTTTTTACCCCCGCCCGTTGNCGCTTAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATAT
AAGCATTGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGC
CGCGAATTCGGCACGAGGCCATGGCCGGCCTGTCGGACCTGGAACTGCGGCGGGAGCTGC
AGGCCCTGGGCTTCCAGCCAGGACCCATCACCGACACCACCCGGGATGTCTACCGCAACA
AGCTGCGCCGCCTGCGGGGCGAGGCCCGGCTGCGCGACGAGGAGCGGCTGCGGGAGGAGG
CCCGGCCGCGGGGCGAGGAGCGGTTACGGGAAGAGGCCCGGTTACGCGAGGATGCGCCGC
TGCGCGCCCGGCCCGCCGCGGCCTCTCCGCGGGCGGAGCCCTGGCTCTCCCAGCCGGCCT
CGGGCTCGGCCTACGCGACCCCTGGGGCCTACGGTGATATCCGGCCCTCCGCGGCTTCCT
GGGTAGGGAGCCGCGGCCTCGCCTATCCTGCCCGCCCGGCGCAACTCAGGCGCCGCGCCT
CGGTCCGGGGCAGCTCCGAGGAGGACGAGGACGCCCGGACGCCCGACAGGGCCACGCAGG
GCCCGGGTCTCGCGGCCCGCCGCTGGTGGGCAGCGTCTCCCGCCCCGGCGCGGCTGCCTT
CCTCCCTCCTCGGTCCCGACCCGCGCCCGGGCCTGCGGGCGACTCGAGCGGGCCCTGCTG
GCGCGGCGAGGGCCCCGGCCTGAGTGGGGCGCNCGCTGGAGCGCTGGCTCTCTCGGCTTC
TGCTCTGGGCCAGCCTNAGGCTACTGCTCGTCTTCCTGGGCATNCCTTTGNGTGAAGAAG
GNGCANGCCCNTCANCGCCCCGCAGAGGCGGAGGACANCATGAAAGNTATTGCCAGTGGG
ACTGTGAGAGAAAACACGATGNAGTNTCTGTCAGGCCAAGCAGAAGGCAGCCTTGCTGGA
GT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_181336 unedited
NNGGATTTGACTGGGACTTTTAAGTAAACAAAAAAACCAGTAAGCCTAGNGAGGGGTGGT
TAATGTTTCTGGAGGCAGCTGTGGAATTTCCTGTTTGCTCCCCCTCTCCTGCCTGCCGCA
GATGAGGACACACGGGGAAGACTCGCTGGAGAGGCTTCTCGCACTTAATAAGGCCCCCCG
TCGGGGTGCTTCTGGAGCCTGCCTCCCAGGGAGCAGGCTGAGGAGCTGGCGGGAGGGCCG
GTGGGCGGCGGCGCGGACGCTGCTCCCTTGTGGCCGGCAGGGGGCAGCCTGCAGCCACTG
CGCCTCTCCCGCCGCCAAGAGCCGCGGCCGGGGTAACAGAAACGCCGGCTGCGCTGAAGT
TCTTGTTAAACAGCCCCGCGTCGGGGCTGTGGTCACAGTAAAGCAAGGCGATCTTCGCAC
ACAGCAAGTGCGAGGCTCTGGGCCCTGACGCAGGGCTCCCAAGCTCCCGGAATCGGCGTT
CTGGCTGCAGGCCTGGTCTAGAGTCGCAGCTTCTGTGAGAAGCAACACTGAGGCGGGCCC
GCCCGACCCTCCTCTCTGCTCTCAGCCCCAGTCCCTACTTGGGGATCCTCCCAGGAGGCT
GTGCCGGCTGCTCACTCCTCCTGACCTGAGGGACCGTGTGTCTGGGCCTGGTGTTTCTAG
ACGGTCCCCCCCTACAGTCACTTGTTCTAATTTCCAGCACCTTCCCTTTTCAGGATAGAG
GCCCAGCCCGTCAGGACCCAAGCTTTTCTCCTTCACCCTGGAGCTCTCAGGTAACAACCC
CTGGAGGCACATGGCCCAAGTTGTTCCCCATTCGTTCCCGAAACACCTCCTTGCCCCACC
TCCCGGTGAGAGACTCCCCTGCCTGGCCTGGCCCAGCCCACAGCCCCACGTT

Restriction Sites: NotI-NotI

ACCN: NM_181336

Insert Size: 2700 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).

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_181336.2, NP_851853.1

RefSeq Size: 2988 bp

RefSeq ORF: 1512 bp

Locus ID: 221496

UniProt ID: Q8NC56

Cytogenetics: 6p21.31

Protein Families: Transmembrane

Gene Summary: This gene encodes a LEM domain-containing transmembrane protein of the inner nuclear membrane. The protein is involved in nuclear structure organization and plays a role in cell signaling and differentiation. Mutations in this gene result in Cataract 46, juvenile-onset. Multiple transcript variants have been found for this gene. [provided by RefSeq, Feb 2017] Transcript Variant: This variant (1) represents the longer transcript and encodes the longest isoform (1).