

Product datasheet for RC227057

LEMD2 (NM_001143944) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LEMD2 (NM_001143944) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LEMD2
Synonyms: CTRCT42; dJ482C21.1; LEM2; MARUPS; NET25
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC227057 representing NM_001143944
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAGCCCAAGAATATATAGCCAATGTGACCAGCAGCTCCTCCGCCAAGTTTGAAGCCGCACTGACCT
 GGATACTGAGCAGTAACAAGGACGTGGGCATCTGGTTGAAAGGAGAAGACCAGTCTGAATTGGTGACGAC
 TGTGGACAAGGTGGTCTGCCTGGAATCTGCCACCCCGCATGGGTGTTGGCTGCCGCTGAGCCGGGCC
 TTGCTCACTGCTGCACCAACGTGCTCATCTTCTTCTGGTGCTTGGCTTTTTTGTGGGGGCTCCTAATTC
 TCCTAAAATATCGGTGGCGAAAGTTAGAAGAGGAGGAACAAGCCATGTATGAGATGGTGAAGAAGATTAT
 AGACGTGGTCCAGGACATTACGTGGACTGGGAGCAGGACATGGAGCGCTATCCATATGTAGGCATCCTG
 CACGTGCGCGACAGCTTGATCCCTCCACAGAGCCGGAGGCGCATGAAGCGTGTCTGGGACCGAGCTGTGG
 AGTTCTGGCCTCCAACGAATCCCGGATCCAGACGGAGTCCCACCGCGTTGCAGGAGAGGACATGCTGGT
 GTGGAGATGGACTAAGCCCTCTTCTTCTGACTCAGAGCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227057 representing NM_001143944
 Red=Cloning site Green=Tags(s)

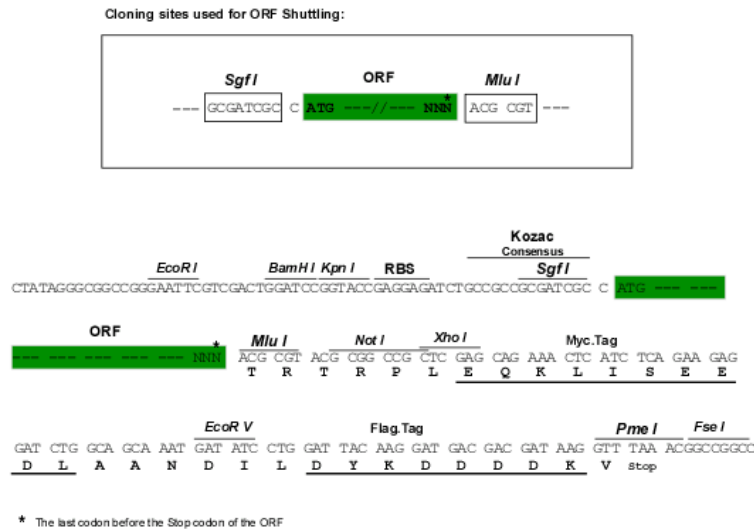
MEAQEYIANVTSSSSAKFEAALTWILSSNKDVGIWLKGEDQSELVTTVDKVVCLSAHPRMGVGCRLSRA
 LLTAVTNVLIFFWCLAFLWGLLILLKYRWRKLEEEQAMYEMVKKIIDVVQDHYVDWEQDMERYPYVGIL
 HVRDSLIPPQSRMRKRVWDRAVEFLASNESRIQTESHVAGEDMLVWRWTKPSSFSDSER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001143944

ORF Size: 603 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

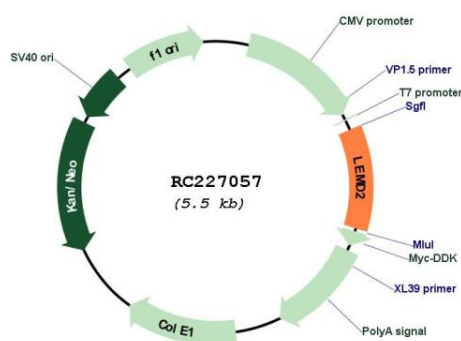
RefSeq: [NM_001143944.1](#), [NP_001137416.1](#)

RefSeq Size: 2376 bp

RefSeq ORF: 606 bp

Locus ID:	221496
UniProt ID:	Q8NC56
Cytogenetics:	6p21.31
Protein Families:	Transmembrane
MW:	23.5 kDa
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]

Product images:



Circular map for RC227057