

Product datasheet for **RC208535**

LEMD2 (NM_181336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEMD2 (NM_181336) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC208535 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCCGGCCTGTCGGACCTGGAAGTGCAGGCCCTGGGCTTCCAGCCAGGACCCATCA
 CCGACACCACCCGGGATGTCTACCGCAACAAGCTGCGCCGCTGCGGGGCGAGGCCCGGCTGCGCGACGA
 GGAGCGGCTGCGGGAGGAGGCCCGCGCGGGCGAGGAGCGGTTACGGGAAGAGGCCCGGTTACGCGAG
 GATGCGCCGCTGCGCGCCCGGCCCGCGCGGCTCTCCGCGGGCGGAGCCCTGGCTCTCCAGCCGGCCT
 CGGGCTCGGCCTACGCGACCCCTGGGGCTACGGTGATATCCGGCCCTCCGCGGCTTCTGGGTAGGGAG
 CCGCGGCTCGCCTATCTGCCCGCCCGCGCAACTCAGCGCCGCGCCTCGGTCCGGGGCAGCTCCGAG
 GAGGACGAGGACCCCGACGCCGACAGGGCCACGAGGGCCCGGTCTCGGGCCCGCGCTGGTGGG
 CAGCGTCTCCGCCCCGCGCGGCTGCCTTCTCCCTCCTCGGTCCGACCCGCGCCGGCCTGCGGGC
 GACTCGAGCGGGCCTGCTGGCGCGGAGGGCCCGGCTGAGGTGGGGCGCGGCTGGAGCGCTGGCTC
 TCTCGGCTTCTGCTCTGGGCCAGCTAGGGCTACTGCTCGTCTTCTGGGCATCCTTTGGGTGAAGATGG
 GCAAGCCCTCAGCGCCGAGGAGCGGAGGACAACATGAAGTTATTGCCAGTGGACTGTGAGAGAAAAAC
 AGATGAGTTCTGTGAGCCAAGCAGAAGGCAGCCTTGTGGAGCTGCTGCATGAAGTCTACAATTTCTG
 GCCATCCAAGCTGGTAATTTTGTGTGGAAATCCAGAGAATCTAAAAAGCAATGCATTCTGTTATGG
 AAGCCCAAGAATATAGCCAATGTGACCAGCAGCTCCTCCGCCAAGTTTGAAGCCGCACTGACCTGGAT
 ACTGAGCAGTAACAAGGACGTGGGCATCTGGTTGAAAGGAGAAGACCAGTCTGAATTGGTGACGACTGTG
 GACAAGGTGGTCTGCCTGGAATCTGCCACCCCGCATGGGTGTTGGCTGCCGCTGAGCCGAGCCTTGC
 TCACTGCTGTACCAACGTGCTCATCTTCTTCTGGTCTTGGCTTTTTTGTGGGGCTCCTAATTCTCT
 AAAATATCGGTGCGAAAAGTTAGAAGAGGAGGAACAAGCCATGTATGAGATGGTGAAGAAGATTATAGAC
 GTGGTCCAGGACATTACGTGGACTGGGAGCAGGACATGGAGCGCTATCCATATGTAGGCATCCTGCACG
 TGCGCGACAGCTTGATCCCTCCACAGAGCCGAGGCGCATGAAGCGTGTCTGGACCGAGCTGTGGAGTT
 CCTGGCCTCCAACGAATCCCGGATCCAGACGGAGTCCACCGGTTGCAGGAGAGGACATGCTGGTGTGG
 AGATGGACTAAGCCCTCTTCTTCTGACTCAGAGCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208535 protein sequence
 Red=Cloning site Green=Tags(s)

MAGLSDELRRELQALGFQPGPITDTRDVYRNKLRRRLRGEARLRDEERLREEARPRGEERLREEARLRE
 DAPLRARPAASPRAEPWLSQPASGSAYATPGAYGDIRPSAASWVSGRLAYPARPAQLRRRASVRGSSE
 EDEDARTPDRATQGPGLAARRWWAASPAPARLPSSLLGPDPRPGLRATRAPAGAAARARPEVGRRLERWL
 SRLLLWASLGLLVFLGILWVKMGKPSAPQEAEDNMKLLPVDCERKTDEFQAKQKAALLELLHELYNFL
 AIQAGNFECGNPENLKSICPVMEAEQYIANVTSSSSAKFEALTWILSSNKDVGILWKGEDQSELVTTV
 DKVVCLESAHPRMGVGCRLSRALLTAVTNVLIFFWCLAFWLGLLILLKYRWKLEEEQAMYEMVKKIID
 VVQDHYVDWEQDMERYPYVGILHVRDSLIPPQSRMRMKRVWDRAVEFLASNESRIQTESHVRVAGEDMLVW
 RWTKPSSFSDSER

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6832_a03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_181336

ORF Size: 1509 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_181336.2](#), [NP_851853.1](#)

RefSeq Size: 2957 bp

RefSeq ORF: 1512 bp

Locus ID: 221496

UniProt ID: [Q8NC56](#)

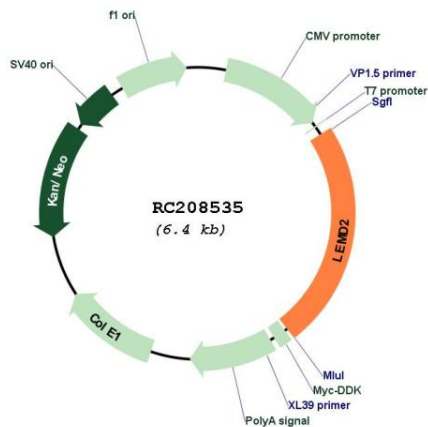
Cytogenetics: 6p21.31

Protein Families: Transmembrane

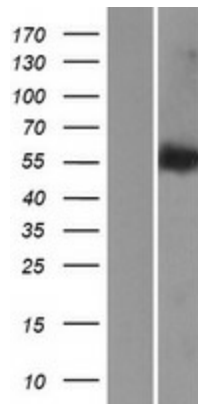
MW: 57 kDa

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]

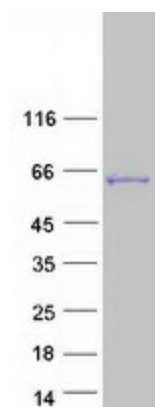
Product images:



Circular map for RC208535



Western blot validation of overexpression lysate (Cat# [LY405791]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208535 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LEMD2 protein (Cat# [TP308535]). The protein was produced from HEK293T cells transfected with LEMD2 cDNA clone (Cat# RC208535) using MegaTran 2.0 (Cat# [TT210002]).