

## Product datasheet for **RC225067**

### LYRM1 (NM\_001128302) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LYRM1 (NM\_001128302) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** LYRM1  
**Synonyms:** A211C6.1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC225067 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAACGGCAACACGACAAGAAGTCCTTGGCCTCTACCGCAGCATTTTCAGGCTTGCAGGAAATGGC  
AGGCGACATCAGGGCAGATGGAAGACACCATCAAAGAAAAACAGTACATACTAAATGAAGCCAGAACGCT  
GTTCCGAAAAACAAAAATCTCACGGACACAGACCTAATTAACAGTGTATAGATGAATGCACAGCCAGG  
ATTGAAATTGGACTGCATTACAAGATTCCTTACCCAAGGCCAATTCATCTGCCTCCAATGGCCTTACCC  
CACTCCGAGGCCGGGACTTCGAAGCCAAGAGAACTGAGGAACTTTCCAAACAGTATATCTCAGATC  
TCATGATGAAGTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC225067 protein sequence  
**Red=Cloning site Green=Tags(s)**

MTTATRQEVLGLYRSIFRLARKWQATSGQMEDIKEKQYILNEARTLFRKNKNLTDLDLIKQCIDECTAR  
IEIGLHYKIPYPRPIHLPPMGLTPLRGRGLRSQEKLRKLSKPVYLRSHDEVS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6539\\_f08.zip](https://cdn.origene.com/chromatograms/mk6539_f08.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001128302

**ORF Size:** 366 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.

**RefSeq:** [NM\\_001128302.3](#)

**RefSeq Size:** 1425 bp

**RefSeq ORF:** 369 bp

**Locus ID:** 57149

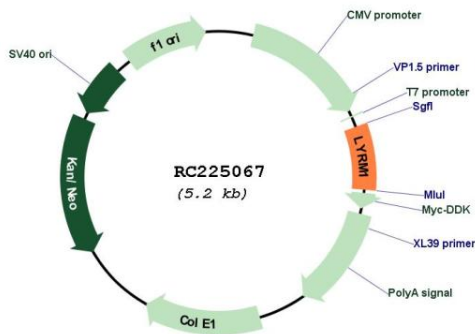
**UniProt ID:** [O43325](#)

**Cytogenetics:** 16p12.3

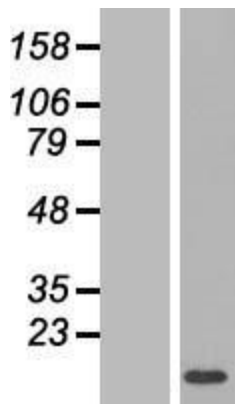
**MW:** 14.3 kDa

**Gene Summary:** The protein encoded by this gene belongs to the mitochondrial leucine/tyrosine/arginine motif family of proteins. Proteins of this family are short polypeptides that contain a leucine/tyrosine/arginine motif near the N-terminus. This gene is widely expressed with high levels in omental adipose tissue of obese individuals. In adipose tissue, the protein is localized to the nucleus where it promotes preadipocyte proliferation and lowers the rate of apoptosis to regulate adipose tissue homeostasis. Overexpression of this gene in adipocytes causes abnormal mitochondrial morphology and mitochondrial dysfunction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

**Product images:**



Circular map for RC225067



Western blot validation of overexpression lysate (Cat# [LY426941]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225067 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).