

Product datasheet for RC223251L1

OriGene Technologies, Inc.

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Leiomodin 3 (LMOD3) (NM_198271) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Leiomodin 3 (LMOD3) (NM_198271) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Leiomodin 3

Synonyms: NEM10

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

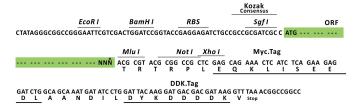
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC223251).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_198271

ORF Size: 1680 bp



Leiomodin 3 (LMOD3) (NM_198271) Human Tagged Lenti ORF Clone - RC223251L1

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 198271.2

RefSeq Size: 4067 bp
RefSeq ORF: 1683 bp
Locus ID: 56203
UniProt ID: QOVAK6
Cytogenetics: 3p14.1

MW: 64.7 kDa

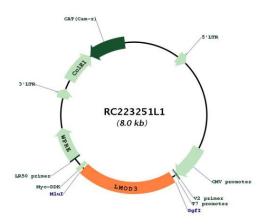
Gene Summary: The protein encoded by this gene is a member of the leiomodin family of proteins. This

protein contains three actin-binding domains, a tropomyosin domain, a leucine-rich repeat domain, and a Wiskott-Aldrich syndrome protein homology 2 domain (WH2). Localization of this protein to the pointed ends of thin filaments has been observed, and there is evidence that this protein acts as a catalyst of actin nucleation, and is important to the organization of sarcomeric thin filaments in skeletal muscles. Mutations in this gene have been associated as one cause of Nemaline myopathy, as other genes have also been linked to this disorder. Nemaline myopathy is a disorder characterized by nonprogressive generalized muscle weakness and protein inclusions (nemaline bodies) in skeletal myofibers. Patients with mutations in this gene often present with a severe congenital form of the disorder. [provided

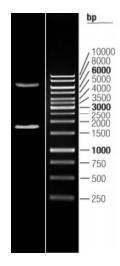
by RefSeg, Jan 2015]



Product images:



Circular map for RC223251L1



Double digestion of RC223251L1 using Sgfl and Mlul $\,$