

Product datasheet for RC205932L2

OriGene Technologies, Inc.

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Myosin Light Chain 2 (MYL2) (NM_000432) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Myosin Light Chain 2 (MYL2) (NM_000432) Human Tagged Lenti ORF Clone

Tag: mGFF

Symbol: Myosin Light Chain 2

Synonyms: CMH10; MLC-2s/v; MLC2

Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

E. coli Selection: Chloramphenicol (34 ug/mL)

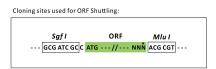
ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC205932).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_000432

ORF Size: 498 bp



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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.

12q24.11

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: <u>NM 000432.1</u>

 RefSeq Size:
 855 bp

 RefSeq ORF:
 501 bp

 Locus ID:
 4633

 UniProt ID:
 P10916

Domains: EFh

Cytogenetics:

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Focal adhesion, Hypertrophic

cardiomyopathy (HCM), Leukocyte transendothelial migration, Regulation of actin

cytoskeleton, Tight junction

MW: 18.8 kDa

Gene Summary: Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow)

heavy chain. Ca+ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type

hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]