

## **Product datasheet for RR212459L3**

## Mtm1 (NM 001013047) Rat Tagged Lenti ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Mtm1 (NM\_001013047) Rat Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Mtm1

Synonyms: MGC108964

Mammalian Cell Puromycin

Selection:

. a. o. i.y c. i.i

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

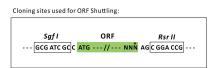
ORF Nucleotide The ORF insert of this clone

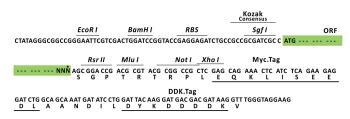
Sequence:

The ORF insert of this clone is exactly the same as(RR212459).

**Restriction Sites:** Sgfl-Rsrll

**Cloning Scheme:** 





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** NM\_001013047

ORF Size: 1659 bp



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

## Mtm1 (NM\_001013047) Rat Tagged Lenti ORF Clone - RR212459L3

**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: <u>NM 001013047.1</u>, <u>NP 001013065.1</u>

 RefSeq Size:
 2536 bp

 RefSeq ORF:
 1662 bp

 Locus ID:
 288762

 UniProt ID:
 Q6AXQ4

 Cytogenetics:
 6q12

**Gene Summary:** Lipid phosphatase which dephosphorylates phosphatidylinositol 3-monophosphate (PI3P)

and phosphatidylinositol 3,5-bisphosphate (PI(3,5)P2). Has also been shown to

dephosphorylate phosphotyrosine- and phosphoserine-containing peptides. Negatively regulates EGFR degradation through regulation of EGFR trafficking from the late endosome to

the lysosome. Plays a role in vacuolar formation and morphology. Regulates desmin

intermediate filament assembly and architecture. Plays a role in mitochondrial morphology and positioning. Required for skeletal muscle maintenance but not for myogenesis. In skeletal

muscles, stabilizes MTMR12 protein levels.[UniProtKB/Swiss-Prot Function]