

### Product datasheet for RC201256L1

# MAL (NM\_002371) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** MAL (NM\_002371) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: MAL

Synonyms: MVP17; VIP17

Mammalian Cell None

Selection:

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

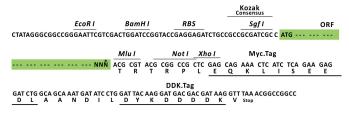
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC201256).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

ACCN: NM\_002371

ORF Size: 459 bp



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#### MAL (NM\_002371) Human Tagged Lenti ORF Clone - RC201256L1

**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 002371.2</u>

RefSeq Size:1153 bpRefSeq ORF:462 bpLocus ID:4118

 UniProt ID:
 P21145

 Cytogenetics:
 2q11.1

**Protein Families:** Transmembrane

**MW:** 16.7 kDa

**Gene Summary:** The protein encoded by this gene is a highly hydrophobic integral membrane protein

belonging to the MAL family of proteolipids. The protein has been localized to the

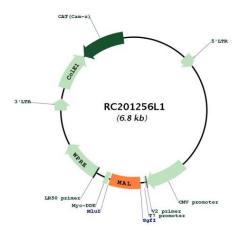
endoplasmic reticulum of T-cells and is a candidate linker protein in T-cell signal transduction. In addition, this proteolipid is localized in compact myelin of cells in the nervous system and has been implicated in myelin biogenesis and/or function. The protein plays a role in the formation, stabilization and maintenance of glycosphingolipid-enriched membrane microdomains. Down-regulation of this gene has been associated with a variety of human epithelial malignancies. Alternative splicing produces four transcript variants which vary from

each other by the presence or absence of alternatively spliced exons 2 and 3. [provided by

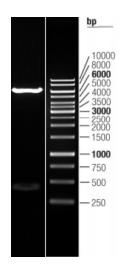
RefSeq, May 2012]



## **Product images:**



Circular map for RC201256L1



Double digestion of RC201256L1 using Sgfl and Mlul