

## Product datasheet for **MR224655L4V**

### Mtm1 (NM\_001164191) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Mtm1 (NM_001164191) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Mtm1   |
| Synonyms:                 | AF073996; mKIAA4176; Mtm   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001164191   |
| ORF Size:                 | 1809 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR224655).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_001164191.1</a> , <a href="#">NP_001157663.1</a>  |
| RefSeq Size:              | 3379 bp  |
| RefSeq ORF:               | 1812 bp  |
| Locus ID:                 | 17772  |
| UniProt ID:               | <a href="#">Q9Z2C5</a>   |
| Cytogenetics:             | X 36.55 cM   |



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**Gene Summary:**

Lipid phosphatase which dephosphorylates phosphatidylinositol 3-monophosphate (PI3P) and phosphatidylinositol 3,5-bisphosphate (PI(3,5)P<sub>2</sub>). 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 (By similarity). Regulates desmin intermediate filament assembly and architecture. Plays a role in mitochondrial morphology and positioning (PubMed:21135508). Required for skeletal muscle maintenance but not for myogenesis (PubMed:12391329). In skeletal muscles, stabilizes MTMR12 protein levels (PubMed:23818870).[UniProtKB/Swiss-Prot Function]