

## Product datasheet for **MR202355L3V**

### Rab5a (NM\_025887) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Rab5a (NM_025887) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Rab5a  |
| Synonyms:                 | 2410015H04Rik; AI663973; AU021172; nnyRab5a  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_025887  |
| ORF Size:                 | 648 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR202355).   |
| 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_025887.2</a> , <a href="#">NP_080163.1</a>  |
| RefSeq Size:              | 2364 bp  |
| RefSeq ORF:               | 648 bp   |
| Locus ID:                 | 271457   |
| UniProt ID:               | <a href="#">Q9CQD1</a>   |
| Cytogenetics:             | 17 27.82 cM  |



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**Gene Summary:**

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes. Contributes to the regulation of filopodia extension. Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (By similarity). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (PubMed:18425118).[UniProtKB/Swiss-Prot Function]