

## Product datasheet for **MR208959L3V**

### **PPP1R16B (NM\_001159662) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | PPP1R16B (NM_001159662) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | PPP1R16B   |
| Synonyms:                 | ANKRD4; C130078N17Rik; TIMAP; Wdt4   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_001159662   |
| ORF Size:                 | 1707 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR208959).   |
| 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_001159662.1</a> , <a href="#">NP_001153134.1</a>  |
| RefSeq Size:              | 6392 bp  |
| RefSeq ORF:               | 1707 bp  |
| Locus ID:                 | 228852   |
| UniProt ID:               | <a href="#">Q8VHQ3</a>   |
| Cytogenetics:             | 2 H1   |



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**Gene Summary:**

Regulator of protein phosphatase 1 (PP1) that acts as a positive regulator of pulmonary endothelial cell (EC) barrier function. Protects the endothelial barrier from lipopolysaccharide (LPS)-induced vascular leakage (PubMed:21907835). Involved in the regulation of the PI3K/AKT signaling pathway (By similarity). Involved in the regulation of angiogenesis and endothelial cell proliferation through the control of ECE1 dephosphorylation, trafficking and activity (By similarity). Involved in the regulation of endothelial cell filopodia extension (By similarity). May be a downstream target for TGF-beta1 signaling cascade in endothelial cells (By similarity). Involved in PKA-mediated moesin dephosphorylation which is important in EC barrier protection against thrombin stimulation. Promotes the interaction of PPP1CA with RPSA/LAMR1 and in turn facilitates the dephosphorylation of RPSA/LAMR1 (By similarity). Involved in the dephosphorylation of EEF1A1 (By similarity).[UniProtKB/Swiss-Prot Function]