

## Product datasheet for **MC218604**

### **PPP1R16B (NM\_001159662) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PPP1R16B (NM_001159662) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	PPP1R16B
Synonyms:	ANKRD4; C130078N17Rik; TIMAP; Wdt4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218604 representing NM\_001159662  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAGCCACGTGGACCTGCTCACAGAGCTGCAGCTGCTGGAGAAGGTGCCTACGCTGGAGCGCCTGC  
 GCGCAGCCAGAAGCGCCGGCTCAGCAGCTGAAGAAGTGGGCACAGTACGAGCAGGACCTGCTTACCG  
 CAAGCGCAAGCATGAGCGGAAGCGCAGCACGGGTGGACGTCGCAAGAAGGTGTCCTTCGAGGCCAGTGTA  
 GCGTTGCTGGAAGCCTCACTGAGGAATGACGCCGAAGAAGTTCGTACTTCTCTGAAGAACAAGGTTAGCC  
 CTGATTTGTGCAATGAGGATGGACTTACAGCCTTGCACCAGTGTGCATTGACAACCTTGAAGAGATTGT  
 CAAGCTGCTGCTGCCACGGTGCGAACGTGAATGCCAAGGACAACGAGCTGTGGACGCCCTGCACGCG  
 GCAGCCACCTGCGGCCACATCAACCTGGTGAAGATCCTCGTTCAGTATGGGGCTGACTTGCTTGTGTCA  
 ACTCTGATGGAAACATGCCATATGACCTCTGCGAGGATGAACCCACCCTGGATGTCATCGAGACCTGCAT  
 GGCATACCAAGGCATCACACAGGAGAAAATCAACGAGATGCGAGCAGCCCTGAGCAGAAGATGATTCA  
 GACATCCACTGCATGATAGCAGCGGGCCAGGATCTCGACTGGATCGATGGCCAGGGTGCCACACTGTAC  
 ACATAGCTGGAGCCAATGGATATCTGCGAGCAGCCGAGCTCCTCCTGGACCATGGAGTGCCTGTGGATGT  
 GAAGGACTGGGATGGCTGGGAGCCTCTGCATGCAGCAGCCTTCTGGGGACAGATGCCAATGGCAGAGCTG  
 CTGGTGTCCCATGGAGCTAGTCTCAGTCCAGGACATCCATGGATGAGATGCCAATAGACCTGTGTGAGG  
 AGGAGGAATCAAGGTCTGTGTTGGAGCTGAAACACAAGCATGATGTGATCATGAAGTCGCAGCTGAG  
 GCACAAGTCGTCCTGAGCCGGAGGACATCCAGCGCGGCAGCCGTGGGAAGGTGGTGCCTCGAGCCAGC  
 CTGTGAGCAGAACCAACCTATACCGGAAAGAATATGAGGGCGAGGCCATCTTGTGGCAGCAGCGGAGTG  
 CAGCTGAGGACCAGCGGACTTCAACCTACAATGGAGACATCAGGGAGACCAGGACAGACCAGGAGAACA  
 GGACCCGAACCCAGGCTGGAGAAGCCCGTGTCTCAGAAATCTCTACCAAGATCTCACGGGGAGAA  
 CTGGATGGGCTGTGGAGAATGGCTCCGGCTCCTGTGAGCACTTACCAGTATGCGCTGGCCAATGGGG  
 ACATATGGAAGATGCACGAGATGCCTGACTACAGCATGGCCTACGGCAACCCTGGCGTGGCTGATGTCCC  
 CCCACCCTGGAGTGGCTTCAAGGAGCAGAGCCCCAAACGCTCCTGGAGCTGAAGAGGCAGAGGGCCGCA  
 GCCAAGCTGCTCAGTACCCATTCTTAAGCACCCACCTGGGCAGCAGCGTGGCCAGGTGGGGGAGAGCA  
 GCAGCGAAGGCAAGGCCCCCTTATTGGAGGCAGAACTTCCCCCTACAGCAGCAACGGGACCTCGGTGTA  
 TTATACAGTACCAGCGGAGATCCCCGCTCTTGAAGTCAAGGCCCCCATGGAGGAGATGGAGGAGAAA  
 GTTCACGGCTGCTGCCGATCTCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001159662
- Insert Size:** 1707 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [NM\\_001159662.1](#), [NP\\_001153134.1](#)

**RefSeq Size:** 6392 bp

**RefSeq ORF:** 1707 bp

**Locus ID:** 228852

**UniProt ID:** [Q8VHQ3](#)

**Cytogenetics:** 2 H1

**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] Transcript Variant: This variant (1) represents the longer transcript. Both variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.