

Product datasheet for **MC219120**

Ppp1r16b (NM_153089) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1r16b (NM_153089) 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: >MC219120 representing NM_153089
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCCACGTGGACCTGCTCACAGAGCTGCAGCTGCTGGAGAAGGTGCCTACGCTGGAGCGCCTGC
 GCGCAGCCAGAAGCGCCGGCTCAGCAGCTGAAGAAGTGGGCACAGTACGAGCAGGACCTGCTTCATCG
 CAAGCGCAAGCATGAGCGGAAGCGCAGCACGGGTGGACGTCGCAAGAAGGTGTCCTTCGAGGCCAGTGTA
 GCGTTGCTGGAAGCCTCACTGAGGAATGACGCCGAAGAAGTTCGTACTTCTCTGAAGAACAAGGTTAGCC
 CTGATTTGTGCAATGAGGATGGACTTACAGCCTTGCACCAGTGTGCATTGACAACCTTGAAGAGATTGT
 CAAGCTGCTGCTGCCACGGTGCGAACGTGAATGCCAAGGACAACGAGCTGTGGACGCCCTGCACGCG
 GCAGCCACCTGCGGCCACATCAACCTGGTGAAGATCCTCGTTCAGTATGGGGCTGACTTGCTTGTGTCA
 ACTCTGATGGAACATGCCATATGACCTCTGCGAGGATGAACCCACCCTGGATGCATCGAGACCTGCAT
 GGCATACCAAGGCATCACACAGGAGAAAATCAACGAGATGCGAGCAGCCCCTGAGCAGAAGATGATTCA
 GACATCCACTGCATGATAGCAGCGGGCCAGGATCTCGACTGGATCGATGGCCAGGGTGCCACACTGTAC
 ACATAGCTGGAGCCAATGGATATCTGCGAGCAGCCGAGCTCCTCCTGGACCATGGAGTGCCTGTGGATGT
 GAAGGACTGGGATGGCTGGGAGCCTCTGCATGCAGCAGCCTTCTGGGGACAGATGCCAATGGCAGAGCTG
 CTGGTGTCCCATGGAGCTAGTCTCAGTGCCAGGACATCCATGGATGAGATGCCAATAGACCTGTGTGAGG
 AGGAGGAATCAAGTCTGTGTTGGAGCTGAAACACAAGCATGATGTGATCATGAAGTCGCAGCTGAG
 GCACAAGTCGTCCTGAGCCGGAGGACATCCAGCGCGGCAGCCGTGGGAAGGTGGTGCCTCGAGCCAGC
 CTGTGAGCAGAACCAACCTATACCGGAAAGAATATGAGGGCGAGGCCATCTTGTGGCAGCAGCGGAGTG
 CAGCTGAGGACCAGCGGACTTCAACCTACAATGGAGACATCAGGGAGACCAGGACAGACCAGGAGAACA
 GGACCCGAACCCAGGCTGGAGAAGCCCGTGTCTCTCAGAATTCTCTACCAAGATCTCACGGGGAGAA
 CTGGATGGCCTGTGGAGAATGGCTCCGGCTCCTGTCAGCACTTACCAGTATGCGCTGGCCAATGGGG
 ACATATGGAAGATGCACGAGATGCCTGACTACAGCATGGCCTACGGCAACCCTGGCGTGGCTGATGTCCC
 CCCACCCTGGAGTGGCTTCAAGGAGCAGAGCCCCAAACGCTCCTGGAGCTGAAGAGGCAGAGGGCCGCA
 GCCAAGCTGCTCAGTACCCATTCTTAAGCACCCACCTGGGCAGCAGCGTGGCCAGGTGCGGGGAGAGCA
 GCAGCGAAGGCAAGGCCCCCTTATTGGAGGCAGAACTTCCCCCTACAGCAGCAACGGGACCTCGGTGTA
 TTATACAGTACCAGCGGAGATCCCCGCTCTTGAAGTCAAGGCCCCCATGGAGGAGATGGAGGAGAAA
 GTTCACGGCTGCTGCCGGATCTCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_153089
- 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_153089.4](#), [NP_694729.1](#)

RefSeq Size: 6370 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 (2) differs in the 5' UTR compared to variant 1. 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.