

Product datasheet for **MR219271**

Ppp1r16b (NM_153089) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ppp1r16b (NM_153089) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppp1r16b
Synonyms:	ANKRD4; C130078N17Rik; TIMAP; Wdt4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR219271 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCAGCCACGTGGACCTGCTCACAGAGCTGCAGCTGCTGGAGAAGGTGCCTACGCTGGAGCGCCTGC
 GCGCAGCCAGAAGCGCCGGCTCAGCAGCTGAAGAAGTGGGCACAGTACGAGCAGGACCTGCTTACCG
 CAAGCGCAAGCATGAGCGGAAGCGCAGCACGGGTGGACGTCGCAAGAAGGTGCTCTTCGAGGCCAGTGTA
 GCGTTGCTGGAAGCCTCACTGAGGAATGACGCCGAAGAAGTTCGTAATCTCCTGAAGAACAAGGTTAGCC
 CTGATTTGTGCAATGAGGATGGACTTACAGCCTTGACACAGTGCATTGACAACCTTTGAAGAGATTGT
 CAAGCTGCTGCTGCCACGGTGCAGCTGAATGCCAAGGACAACGAGCTGTGGACGCCCTGCACGCG
 GCAGCCACCTGCGGCCACATCAACCTGGTGAAGATCCTCGTTCAGTATGGGGCTGACTTGCTTGTGTCA
 ACTCTGATGGAACATGCCATATGACCTCTGCGAGGATGAACCCACCCTGGATGTCATCGAGACCTGCAT
 GGCATACCAAGGCATCACACAGGAGAAAATCAACGAGATGCGAGCAGCCCTGAGCAGAAGATGATTCA
 GACATCCACTGCATGATAGCAGCGGGCCAGGATCTCGACTGGATCGATGGCCAGGGTGCCACACTGCTAC
 ACATAGCTGGAGCCAATGGATATCTGCGAGCAGCCGAGCTCCTCCTGGACCATGGAGTGCCTGTGGATGT
 GAAGGACTGGGATGGCTGGGAGCCTCTGCATGCAGCAGCCTTCTGGGGACAGATGCCAATGGCAGAGCTG
 CTGGTGTCCCATGGAGCTAGTCTCAGTGCAGGACATCCATGGATGAGATGCCAATAGACCTGTGTGAGG
 AGGAGGAATCAAGTCTGTGTTGGAGCTGAAACACAAGCATGATGTGATCATGAAGTCGCAGCTGAG
 GCACAAGTCGTCCTGAGCCGGAGGACATCCAGCGCGGCAGCCGTGGGAAGGTGGTGCCTGAGCCAGC
 CTGTGAGCAGAACCAATCTATACCGGAAAGAATATGAGGGCGAGGCCATCTTGTGGCAGCAGCGGAGTG
 CAGCTGAGGACCAGCGGACTTCAACCTACAATGGAGACATCAGGGAGACCAGGACAGACCAGGAACAA
 GGACCCGAACCCAGGCTGGAGAAGCCCGTGTGCTCTCAGAATCTCTACCAAGATCTCACGGGGAGAA
 CTGGATGGCCTGTGGAGAATGGCCTCCGGCTCCTGTCAGCACTTACCAGTATGCGCTGGCCAATGGGG
 ACATATGGAAGATGCACGAGATGCCTGACTACAGCATGGCCTACGGCAACCTGGCGTGGCTGATGTCCC
 CCCACCCTGGAGTGGCTTCAAGGAGCAGAGCCCCAAACGCTCCTGGAGCTGAAGAGGCAGAGGGCCGCA
 GCCAAGCTGCTCAGTACCCATTCTTAAGCACCCACCTGGGCAGCAGCGTGGCCAGGTGGGGGAGAGCA
 GCAGCGAAGGCAAGGCCCTTATTGGAGGCAGAACTTCCCCCTACAGCAGCAACGGGACCTCGGTGTA
 TTATACAGTACCAGCGGAGATCCCCGCTCTTGAAGTCAAGGCCCCCATGGAGGAGATGGAGGAGAAA
 GTTCACGGCTGTGCCGATCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219271 protein sequence
 Red=Cloning site Green=Tags(s)

MASHVDLLTELQLEKVPPTLERLRAAQKRRAQQLKKAQYEQDLLHRKRKHERKRSTGGRRKKSFEASV
 ALLEASLRNDAEEVRYFLKNKVPDLNEDGLTALHQCCIDNFEEIVKLLL SHGANVNAKDNELWPLHA
 AATCGHINLVKILVQYGADLLAVNSDGNMPYDLCEDEPTLDVIETCMAYQGITQEKINEMRAAPEQKMIS
 DIHCMIAAGQDLWDIGQATLLHIAGANGYLRAAELLLDHGVVRVDKDWGWEPLHAAAFWQMPMAEL
 LVSHGASLSARTSMDEMPIDLCEEEEFKVLLELKHKHDVIMKSQLRHKSSLRRTSSAGSRGKVRRAS
 LSDRTNLYRKEYEGEAILWQQRSAEDQRTSTYNGDIRETRTDQENKDPNPRLEKPVLLSEFSTKISRGE
 LDGPVENGLRAPVSTYQYALANGDIWKMHMPDYSMAYGNPGVADVPPPWSGFKEQSPQTLELKRQRAA
 AKLLSHPFLSTHLGSSVARSGESSEKAPLIGGRTSPYSSNGTSVYYTIVTSGDPPLLKFKAPMEEMEEK
 VHGCCRIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_153089

ORF Size: 1707 bp

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_153089.1, NM_153089.2, NM_153089.3, NM_153089.4, NP_694729.1

RefSeq Size: 6370 bp

RefSeq ORF: 1707 bp

Locus ID: 228852

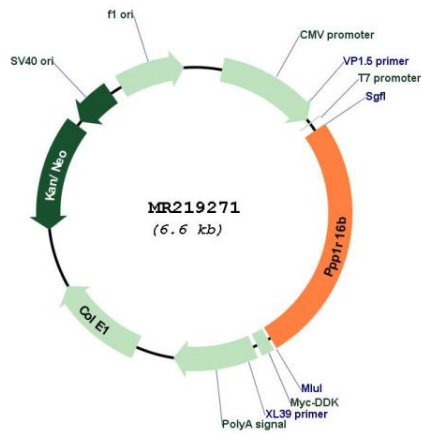
UniProt ID: Q8VHQ3

Cytogenetics: 2 H1

MW: 63.6 kDa

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]

Product images:



Circular map for MR219271