

Product datasheet for **RN211036**

Pip4p1 (NM_001014233) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pip4p1 (NM_001014233) Rat Untagged Clone
Tag: Tag Free
Symbol: Pip4p1
Synonyms: RGD1307475; Tmem55b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN211036 representing NM_001014233
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCGGCAGACGGAGAGCGCTCCCGCTGCTCTCCGAGGCCGGCGATGGCGGGCTGGTGGCAACGGCT
 TAGCGGGTCCGGGCGGGAGCGCGACTGGGCCCGGTGGAGGCCGACGCCCTCCGCACCTCCGTACGGAGC
 CGGTAACATGCCCGCCCCAGGCATTTCCCCGTTCCCTGAGGGGCATCCAGCTGTGTTGCCTGGAGAG
 GACCCACCCCTACTCACCCCTGACTAGCCCGGATAGTGGAGTGCCCCATGATTACCTGTCGAGTCT
 GTCAGTCTCCGATCAACGTGGAAGGCAAGATGCATCAGCATGTAGTCAAATGTGGTGTCTGCAACGAAGC
 CACCCCGATCAAGAATGCACCTCCAGGAAAGAAGTATGTCCGATGTCCTGTAACGTCTCCTTATCTGC
 AAAGTGACTTCTCAGCGATTGCCTGCCCTCGGCCCTACTGCAAAAGAATCATCAACCTAGGGCCTGTAC
 ATCCAGGACCTCTGAGTCCAGAACCACAGCCAATGGGTGTGAGGGTCATCTGTGGACATTGCAAGAATAC
 GTTTCTGTGGACAGAATTCACAGACCGAACCTTGGCACGATGCCCTCACTGCAGAAAAGTGTATCTATT
 GGGCGCAGATACCTAGGAAGAGATGCATTTGCTGCTTCTTACTTGGTTTACTCTTGGCAGTCACTGCCA
 CTGGCCTTGCTTTTGGCACATGGAAGCCTGCACAGCAATATGGAGGTATCTATGCAGCCTGGGCGTTTGT
 CATTTTGTGGCCGTTCTATGTTTGGCCGGGCCCTTTACTGGGGCTGTATGAAGGTCAGCCATCCTGTCT
 CAGAACTTCTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001014233
Insert Size: 855 bp



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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_001014233.2](#), [NP_001014255.1](#)

RefSeq Size: 1657 bp

RefSeq ORF: 855 bp

Locus ID: 364298

UniProt ID: [Q5PPM8](#)

Cytogenetics: 15p14

Gene Summary: Catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate (PtdIns-4,5-P2) to phosphatidylinositol-4-phosphate (PtdIns-4-P) (By similarity). Does not hydrolyze phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 3,4-bisphosphate, inositol 3,5-bisphosphate, inositol 3,4-bisphosphate, phosphatidylinositol 5-monophosphate, phosphatidylinositol 4-monophosphate and phosphatidylinositol 3-monophosphate (By similarity). Regulates lysosomal positioning by recruiting JIP4 to lysosomal membranes, thus inducing retrograde transport of lysosomes along microtubules (By similarity). Contributes to assembly of the V-ATPase complex in lipid rafts of the lysosomal membrane and to subsequent amino acid-dependent activation of mTORC1 (By similarity). May play a role in the regulation of cellular cholesterol metabolism (By similarity).[UniProtKB/Swiss-Prot Function]