

Product datasheet for **MR207797**

Pip5k1b (BC034864) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pip5k1b (BC034864) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pip5k1b
Synonyms:	STM7, Pipk5b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207797 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGCTCAACTGCTGAAAAATGGAGACGCCGTACCTGGAAAAACAAAACGAAGAAAAACCTACAAAAAGA
 CGGCATCGTCAGCTATTAAGGTGCTATCCAGCTGGGAATAGGATACACAGTGGCAACCTCACGTCCAA
 GCCAGAACCGGATGTCCTCATGCAAGACTTCTACGTGGTGGAAAGTGTGTTCTCCCCAGTGAAGGGAGC
 AACCTGACCCAGCACATCACTACCCAGACTTCAGGTTTAAAGACCTACGCACCGCTGGCCTTCCGGTACT
 TCCGAGAACTCTTTGGTATCAAGCCGATGATTACTTGTACTCCATCTGCAGTGAACCTCTGATAGAAT
 GTCCAATCCTGGAGCCAGTGGTCCTTGTTTTTCTTGACCAGCGATGATGAATTTATCATAAAACCGTT
 CAGCATAAGGAAGCCGAGTTCCTGCAGAAGCTGCTGCCGGCTATTACATGAATTTAAACAGAATCCAA
 GGACTCTTCTGCCAAAATCTATGGGCTGTATTGCATGCAGTCAAGAGGCATCAACATCCGCATTGTGGT
 GATGAACAATGTCTGCCGCGTCCATGAGGATGCATTTGACCTATGACCTGAAAGGCTCCACATACAAG
 CGAAGAGCATCCCGAAAAGAGAGGGAGAAACCCAAACCCACGTTTAAAGGACCTGGACTTCTGCAGGACA
 TGCACGAGGGGCTGTATTTTCGATACAGAAACATACAATGCCCTTATGAAGACACTACAGAGAGACTGCCG
 GTTTCTGGAAAGCTTCAAGATCATGGACTACAGCCTTTTGTGGGTATCCACATCTTGGACCATTCCCTC
 AAAGACAAAGAAGAGGAGCCCTCCAAAACGTGCCTGATGCAAAGCGCCGGGATGCAGAAAGTCTCT
 ATTCCACAGCCATGGAATCCATCCAGGGTCCAGGCAAGTCTGCAGATGGGATCATTGCAGAGAATCCAGA
 CACAATGGGAGGCATTCCAGCTAAAAGCCATAAGGGAGAGAAGCTGCTTCTATTCATGGGCATTATTGAC
 ATCCTCCAATCATATAGGTTAATGAAGAAGTTAGAACATTCCTGGAAAGCCCTTGTATGATGGGGACA
 CCGTTTTAGTTCATAGACCAAGTTTTTATGCAGATAGATTTTTAAAGTTTGAATTCAGAGTTTTCAA
 GAAAATTCAGCCCTGGGATCCCGACACAGGCCGACCTGGTACCCAGCACTCCATCATTATTTGAAGCT
 GCTTCTTAGCGACCACATATCATCTTCTTATATGTCGGCGAACACTATCCACATGACAGGACTA
 CCCTTACTCAAACAGCAAAGGGTTACCTTCCAGTTCAACCTTACCTTGGAAAGGGGACCATCTACCT
 GACGGCTGAGCCAAACCCCTGGACCTGCAGGATGATGCCTCTGTGCTGGACGTCTATTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207797 protein sequence
 Red=Cloning site Green=Tags(s)

MSSTAENGDVAVPGKQNEEKTYKKTASSAIKGAIQLGIGYTVGNLTSKPERDVLMDQFYVVESVFLPSEGS
 NLTPAHYDFRFRKTYAPLAFRYFRELFGIKPDDYLYSICSEPLIELSNPGASGSLFFLTSDDDEFIIKTV
 QHKEAEFLQKLLPGYYMNLNQNPRLLPKFYGLYCMQSGGINIRIVVMNNVLPARAMHLTYDLKGSTYK
 RRASRKEREKPNPTFKDLDFLQDMHEGLYFDTEYNALMKTQDRVLESFKIMDYSLLLGIHILDHSL
 KDKEEPLQNVDAKRPQMVKVLYSTAMESIQGPGKSADGIIAENPDTMGGIPAKSHKGEKLLLFMGIID
 ILQSYRLMKLEHSWKALVYDGDVSVHRPSFYADRFLKFMNSRVFKKIQUALGSRHRPDLVPSTPSLFEA
 ASLATTISSSSLVYGEHYPHDRITLYSNSKGLPSSSTFTLEEGTIYLTAEPNTLDLQDDASVLDVYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: BC034864

ORF Size: 1461 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: [BC034864](#), [AAH34864](#)
RefSeq Size: 2414 bp

RefSeq ORF: 1463 bp

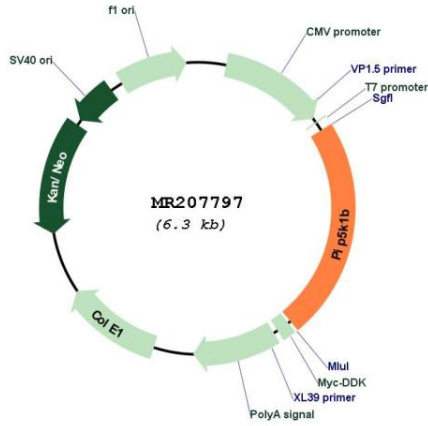
Locus ID: 18719

Cytogenetics: 19 B

MW: 55.1 kDa

Gene Summary: Participates in the biosynthesis of phosphatidylinositol 4,5-bisphosphate. Mediates RAC1-dependent reorganization of actin filaments. Contributes to the activation of PLD2. Together with PIP5K1A is required after stimulation of G-protein coupled receptors for stable platelet adhesion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207797