

Product datasheet for **MG221071**

Pip5k1b (NM_008846) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pip5k1b (NM_008846) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pip5k1b
Synonyms:	PI4P5K-I[b]; PIP5K1-beta; PIP5K1beta; Pipk5b; STM7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221071 representing NM_008846
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCTCAACTGCTGAAAAATGGAGACGCCGTACCTGGAAAAACAAAACGAAGAAAAACCTACAAAAAGA
 CGGCATCGTCAGCTATTAAGGTGCTATCCAGCTGGGAATAGGATACACAGTGGCAACCTCACGTCCAA
 GCCAGAACCGGATGTCCTCATGCAAGACTTCTACGTGGTGGAAAGTGTGTTCTCCCCAGTGAAGGGAGC
 AACCTGACCCAGCACATCACTACCCAGACTTCAGGTTTAAAGACTACGCACCGCTGGCCTTCCGGTACT
 TCCGAGAACTCTTTGGTATCAAGCCGATGATTACTTGTACTCCATCTGCAGTGAACCTCTGATAGAAT
 GTCCAATCCTGGAGCCAGTGGTCCTTGTTTTTCTTGACCAGCGATGATGAATTTATCATAAAACCGTT
 CAGCATAAGGAAGCCGAGTTCCTGCAGAAGCTGCTGCCGGCTATTACATGAATTTAAACAGAATCCAA
 GGACTCTTCTGCCAAAATCTATGGGCTGTATTGCATGCAGTCAAGAGGCATCAACATCCGATTGTGGT
 GATGAACAATGTCTGCCGCGTCCATGAGGATGATTTGACCTATGACCTGAAAGGCTCCACATACAAG
 CGAAGAGCATCCCGAAAAGAGAGGGAGAAACCCAAACCCACGTTTAAAGGCTGGACTTCTGCAGGACA
 TGCACGAGGGGCTGTATTTTCGATACAGAAACATACAATGCCCTTATGAAGACACTACAGAGAGACTGCCG
 GTTTCTGGAAAGCTTCAAGATCATGGACTACAGCCTTTTGTGGGTATCCACATCTTGGACCATTCCCTC
 AAAGACAAAGAAGAGGAGCCCTCCAAAACGTGCCTGATGCAAAGCGCCGGGGATGCAGAAAGTCTCT
 ATTCCACAGCCATGGAATCCATCCAGGGTCCAGGCAAGTCTGCAGATGGGATCATTGCAGAGAATCCAGA
 CACAATGGGAGGCATTCCAGCTAAAAGCCATAAGGGAGAGAAGCTGCTTCTATTCATGGGCATTATTGAC
 ATCCTCCAATCATATAGGTTAATGAAGAAGTTAGAACATTCCTGGAAAGCCCTTGTATGATGGGGACA
 CCGTTTTAGTTCATAGACCAAGTTTTTATGCAGATAGATTTTTAAAGTTTATGAATTCAGGTTTTCAA
 GAAAATCAAGCTCTGAAAGCCTCGCCTTCTAAGAAACGCTGCAACTCCATCGCTGCACTGAAGGCAACC
 TCCAGGAGATCGTATCCTCCATCAGCCAGGAATGGAAGGACGAGAAGCGGGATTGTAAACGAAGGAC
 AGAGTTTCAGCAGCCTGGATGAAGAAGCCTGGGATCCCGACACAGGCCCGACCTGGTACCCAGCACTCC
 ATCATTATTTGAAGCTGCTTCTTAGCGACCACAATATCATCTTCTTCTATATGTCGGCGAACACTAT
 CCACATGACAGGACTACCTTTACTCAAACAGCAAAGGGTTACCTTCCAGTTCAACCTTACCTTGGGAAG
 AGGGGACCATCTACCTGACGGCTGAGCCAAACACCCTGGACCTGCAGGATGATGCCTCTGTGCTGGACGT
 CTATTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221071 representing NM_008846
 Red=Cloning site Green=Tags(s)

MSSTAENGDAVPGKQNEEKTYKKTASSAIKGAIQLGIGYTVGNLTSKPERDVLMDQFYVVESVFLPSEGS
 NLTPAHHYPDFRFKYAPLAFRYFRELFGIKPDDYLYSICSEPLIELSNPGASGSLFFLTSDEFI IKTV
 QHKEAEFLQKLLPGYYMNLNQNPRLLPKFYGLYCMQSGGINIRIVVMNNVLPARMHLYDLKGSTYK
 RRASRKEREKPNPTFKDLDFLQDMHEGLYFDTETYNALMKTLQRDCRVLESFKIMDYSLLLGIHILDHSL
 KDKEEPLQNVDAKPRGMQKVLYSTAMESIQGPGKSADGIIAENPDTMGGIPAKSHKGEKLLLFMGIID
 ILQSYRLMKLEHSWKALVYDGDVSVHRPSFYADRFLKFMNSRVFKKI QALKASPSKKRNCNSIAALKAT
 SQEIVSSISQEWKDEKRDLLTEGQSFSSLDEEALGSRHRPDLVPSTPSLFEAASLATTISSSLYVGEHY
 PHDRITLYSNSKGLPSSSTFTLEEGTIYLTAEPNLTLQDDASVLDVYL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008846

ORF Size: 1617 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_008846.3](#)

RefSeq Size: 2528 bp

RefSeq ORF: 1620 bp

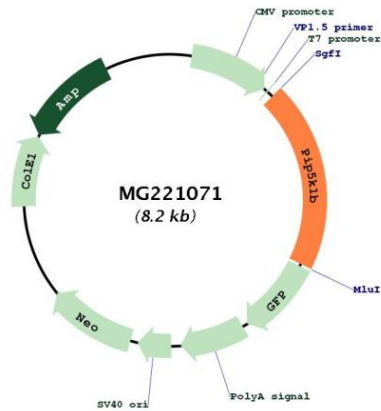
Locus ID: 18719

UniProt ID: [P70181](#)

Cytogenetics: 19 B

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 MG221071