

Product datasheet for **MR221071**

Pip5k1b (NM_008846) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pip5k1b (NM_008846) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pip5k1b
Synonyms:	PI4P5K-I[b]; PIP5K1-beta; PIP5K1beta; Pipk5b; STM7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR221071 representing NM_008846
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGCAACTGCTGAAAATGGAGACGCCGTACCTGGAAAACAAAACGAAGAAAAACCTACAAAAAGA
 CGGCATCGTCAGCTATTAAGGTGCTATCCAGCTGGGAATAGGATACACAGTGGCAACCTCACGTCCAA
 GCCAGAACCGGATGTCCTCATGCAAGACTTCTACGTGGTGAAAGTGTGTTCTCCCCAGTGAAGGGAGC
 AACCTGACCCAGCACATCACTACCCAGACTTCAGGTTTAAAGACCTACGCACCGCTGGCCTTCCGGTACT
 TCCGAGAACTCTTTGGTATCAAGCCGATGATTACTTGTACTCCATCTGCAGTGAACCTCTGATAGAAT
 GTCCAATCCTGGAGCCAGTGGTCCTTGTTTTTCTTGACCAGCGATGATGAATTTATCATAAAACCGTT
 CAGCATAAGGAAGCCGAGTTCCTGCAGAAGCTGCTGCCGGCTATTACATGAATTTAAACCAGAATCCAA
 GGACTCTTCTGCCAAAATCTATGGGCTGTATTGCATGCAGTCAAGAGGCATCAACATCCGATTGTGGT
 GATGAACAATGTCTGCCGCGTCCATGAGGATGATTTGACCTATGACCTGAAAGGCTCCACATACAAG
 CGAAGAGCATCCCGAAAAGAGAGGGAGAAACCCAAACCCACGTTTAAAGGACCTGGACTTCTGCAGGACA
 TGCACGAGGGGCTGTATTTGATACAGAAACATACAATGCCCTTATGAAGACACTACAGAGAGACTGCCG
 GTTTCTGGAAAGCTTCAAGATCATGGACTACAGCCTTTTGTGGGTATCCACATCTTGGACCATTCCCTC
 AAAGACAAAGAAGAGGAGCCCTCCAAAACGTGCCTGATGCAAAGCGGCCGGGATGCAGAAAGTCTCT
 ATTCCACAGCCATGGAATCCATCCAGGGTCCAGGCAAGTCTGCAGATGGGATCATTGCAGAGAATCCAGA
 CACAATGGGAGGCATTCCAGCTAAAAGCCATAAGGGAGAGAAGCTGCTTCTATTCATGGGCATTATTGAC
 ATCCTCCAATCATATAGGTTAATGAAGAAGTTAGAACATTCCTGGAAAGCCCTTGTATGATGGGGACA
 CCGTTTTAGTTCATAGACCAAGTTTTTATGCAGATAGATTTTTAAAGTTTATGAATCCAGATTTTTCAA
 GAAAATCAAGCTCTGAAAGCCTCGCCTTCTAAGAAACGCTGCAACTCCATCGCTGCACTGAAGGCAACC
 TCCAGGAGATCGTATCCTCCATCAGCCAGGAATGGAAGGACGAGAAGCGGGATTGTAAACCGAAGGAC
 AGAGTTTCAGCAGCCTGGATGAAGAAGCCTGGGATCCCGACACAGGCCCGACCTGGTACCCAGCACTCC
 ATCATTATTTGAAGCTGCTTCTTAGCGACCACAATATCATCTTCTTCTATATGTCGGCGAACACTAT
 CCACATGACAGGACTACCCTTACTCAAACAGCAAAGGTTACCTTCCAGTTCAACCTTACCTTGGAAAG
 AGGGGACCATCTACCTGACGGCTGAGCCAAACACCCTGGACCTGCAGGATGATGCCTCTGTGCTGGACGT
 CTATTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221071 representing NM_008846
 Red=Cloning site Green=Tags(s)

MSSTAENGDAVPGKQNEEKTYKKTASSAIKGAIQLGIGYTVGNLTSKPERDVLMDQFYVVESVFLPSEGS
 NLTPAHYVDFRFRKTYAPLAFRYFRELFGIKPDDYLYSICSEPLIELSNPGASGSLFFLTSDDDEFIIKTV
 QHKEAEFLQKLLPGYYMNLNQNPRLLPKFYGLYCMQSGGINIRIVVMNNVLPARAMHLTYDLKGSTYK
 RRASRKEREKPNPTFKDLDFLQDMHEGLYFDTETYNALMKTQDRVLESFKIMDYSLLLGIHILDHSL
 KDKEEPLQNVDAKRPQMVKVLYSTAMESIQGPGKSADGIIAENPDTMGGIPAKSHKGEKLLLFMGIID
 ILQSYRLMKLEHSWKALVYDGDVSVHRPSFYADRFLKFMNSRVFKKIQALKASPSKRCNSIAALKAT
 SQEIVSSISQEWKDEKRDLLTEGQSFSSLDEEALGSRHRPDLVPSTPSLFEAASLATTISSSSLYVGEHY
 PHDRITLYSNSKGLPSSSTFTLEEGTIYLAEPNTLDLQDDASVLDVYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

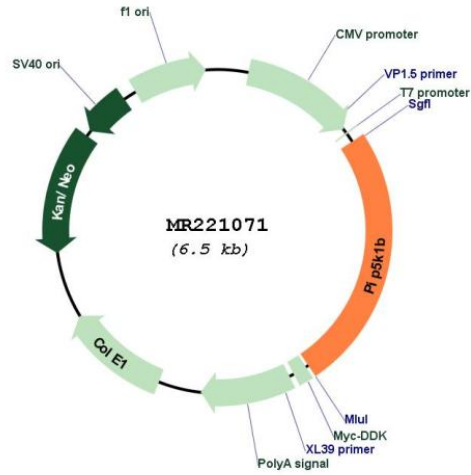
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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:	<ol style="list-style-type: none">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
MW:	61.3 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]