

## Product datasheet for **RC238592**

### PIP5K1 beta (PIP5K1B) (NM\_001278253) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIP5K1 beta (PIP5K1B) (NM_001278253) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIP5K1B
Synonyms:	MSS4; STM7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238592 representing NM\_001278253  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCCTTCTGCTGCTGAAAAATGGAGAGGCAGCACCTGGAAAAACAAAATGAAGAAAAACCTATAAAAAGA  
 CTGCATCATCTGCTATTAAGGTGCTATTCAGCTGGGAATAGGATACACAGTGGTAATCTCACTCCAA  
 GCCAGAACGAGATGTTCTTATGCAAGACTTTTATGTGGTGAAAGTGTGTTCTACCCAGCGAAGGGAGC  
 AATCTGACCCAGCACATCACTACCCAGACTTTAGATTTAAGACATACGCTCCATTAGCATTCCGATATT  
 TCAGAGAACTTTTTGGTATCAAGCCTGATGATTACTTGTATTCCATCTGCAGTGAACCTCTAATAGA  
 ACTGTCTAACCTGGAGCCAGTGGATCCTTGTTTTTGTGACCAGTGTGATGAATTTATCATAAAACAGT  
 CAGCACAAGAAGCTGAGTTTCTCAGAAGCTACTGCCAGGCTATTACATGAATTTAAACCAGAATCCAA  
 GGACTCTTTGCCAAAATTTACGGACTGTATTGTATGCAATCAGGAGGCATTAATATCAGGATTGTGGT  
 GATGAACAACGTTTTGCCACGCTCCATGAGAATGCACTTTACATATGACTTGAAAGGCTCAACGTATAAG  
 CGAAGAGCATCCCGTAAAGAGAGAGAGAAATCCAACCCACATTTAAGGACTTAGATTTCTGCAAGACA  
 TGCACGAAGGGTTGATTTTGTACGGAACATACAACGCGCTTATGAAAACACTTCAGAGAGACTGCCG  
 GGTGCTAGAAAAGCTTCAAGATCATGGATTATAGCCTTCTGTTGGGAATTCATTTCTGGACCATTCCCTC  
 AAAGAGAAAAGAGGAGGAGACCCACAAAATGTGCCTGATGCTAAGCGGACTGGGATGCAGAAGGTTCTCT  
 ACTCAACAGCCATGGAATCTATCCAGGGTCCAGGGAAATCTGGAGATGGGATAATCACAGAGAACCAGA  
 CACAATGGGAGGCATCCAGCTAAAAGCCATAGGGGAGAAAACTACTTTATTTATGGGCATTATTGAC  
 ATCTGCAATCATATAGGTTAATGAAGAAGTTAGAACATTCCTGGAAAGCTCTTGTTTATGATGGGGACA  
 CTGTTTTCTGTCATAGACCAAGCTTTTATGCAGACAGATTTCTTAAGTTCATGAATCCAGAGTTTTCAA  
 GAAAATCAAGCTTTGAAGGCTTCACCGCTAAGAAACGGTGAATTCATCGCCGCCCTAAAGGCCACT  
 TCACAGGAGATTGTGCCTCAATTAGCCAGGAATGGAAGGATGAGAAGCGGGATTGCTGACTGAAGGAC  
 AAAGTTTTAGCAGCCTTGATGAAGAAGCCTGGGATCCCGACACAGGCCAGACCTGGTCCCTAGCACTCC  
 ATCACTGTTTGAAGCTGCTTCTTGGCAACCACAATTTTCATCTTCTTCTTATACGTCAATGAGCACTAT  
 CCACACGACAGGCCTACTCTATTCAAACAGTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238592 representing NM\_001278253  
 Red=Cloning site Green=Tags(s)

MSSAAENGEAAPGKQNEEKTYKKTASSAIKGAIQLGIGYTVGNLTSKPERDVLMDQFYVVESVFLPSEGS  
 NLTPAHHPDFRFKTYAPLAFRYFRELFGIKPDDYLYSICSEPLIELSNPGASGSLFFVTSDEFIIKTV  
 QHKEAEFLQKLLPGYYMNLNQNPRLLPKFYGLYCMQSGGINIRIVVMNNVLPMSMRMHFTYDLKGSTYK  
 RRASRKEREKSNPTFKDLDFLQDMHEGLYFDTEYNALMKTLQRDCRVLESFKIMDYSLLLGIHFLDHS  
 LKEKEEETPQNVDAKRTGMQKVLYSTAMESIQGPGKSGDGIITENPDTMGGIPAKSHRGEKLLLFGI  
 IIDILQSYRLMKKLEHSWKALVYDGDVSVHRPSFYADRFLKFMNSRVFKIQALKASPSKKRCSIAALKAT  
 SQEIVSSISQEWKDEKRDLLTEGQSFSSLDDEALGSRHRPDLVPSTPSLFEAASLATTISSSSLYNEHY  
 PHDRPTLYNSK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

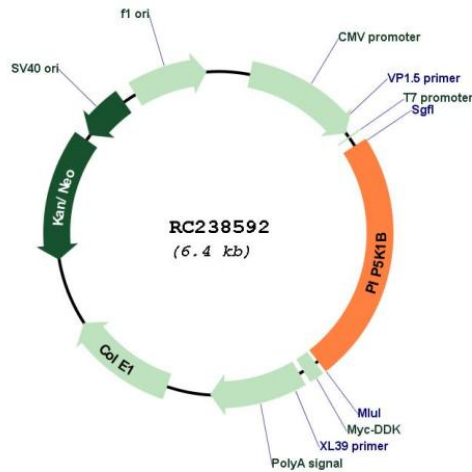
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001278253

ORF Size: 1506 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001278253.1</a> , <a href="#">NP_001265182.1</a>
<b>RefSeq Size:</b>	2682 bp
<b>RefSeq ORF:</b>	1509 bp
<b>Locus ID:</b>	8395
<b>UniProt ID:</b>	<a href="#">O14986</a>
<b>Cytogenetics:</b>	9q21.11
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Endocytosis, Fc gamma R-mediated phagocytosis, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system, Regulation of actin cytoskeleton
<b>MW:</b>	57.4 kDa
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]