

## Product datasheet for **SC117935**

### PIP5K1 beta (PIP5K1B) (NM\_003558) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIP5K1 beta (PIP5K1B) (NM_003558) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIP5K1 beta
Synonyms:	MSS4; STM7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117935 sequence for NM\_003558 edited (data generated by NextGen Sequencing)

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ATGTCTTCTGCTGCTGAAAATGGAGAGGCAGCACCTGGAAAACAAAATGAAGAAAAAACC
TATAAAAAGACTGCATCATCTGCTATTAAGGTGCTATTCAGCTGGGAATAGGATACACA
GTGGGTAATCTCACTTCCAAGCCAGAACGAGATGTTCTTATGCAAGACTTTTATGTGGTG
GAAAGTGTGTTCTACCCAGCGAAGGGAGCAATCTGACCCAGCACATCACTACCCAGAC
TTTAGATTTAAGACATACGCTCCATTAGCATTCCGATATTTTCAGAGAACTTTTTGGTATC
AAGCCTGATGATTACTTGTATTCCATCTGCAGTGAACCTCTAATAGAAGTGTCTAACCTT
GGAGCCAGTGGATCCTTGTTTTTTGTGACCAGTATGATGAATTTATCATCAAAACAGTT
CAGCACAAAGAAGCTGAGTTTCTCAGAAGCTACTGCCAGGCTATTACATGAATTTAAAC
CAGAATCCAAGGACTCTTTTGC AAAATTTTACGGACTGTATTGTATGCAATCAGGAGGC
ATTAATATCAGGATTGTGGTGATGAACAACGTTTTGCCACGCTCCATGAGAATGCACTTT
ACATATGACTTGAAGGCTCAACGTATAAGCGAAGAGCATCCCGTAAAGAGAGAGAGAAA
TCCAACCCACATTTAAGGACTTAGATTTCTGCAAGACATGCACGAAGGGTTGTATTTT
GATACGGAAACATACAACGCGCTTATGAAAACACTTCAGAGAGACTGCCGGGTGCTAGAA
AGCTTCAAGATCATGGATTATAGCCTTCTGTTGGGAATTCATTTCTGGACCATTCCCTC
AAAGAGAAAGAGGAGGAGACCCACAAAATGTGCCTGATGCTAAGCGGACTGGGATGCAG
AAGGTTCTCTACTCAACAGCCATGGAATCTATCCAGGGTCCAGGGAAATCTGGAGATGGG
ATAATCACAGAGAACCCAGACACAATGGGAGGCATTCCAGCTAAAAGCCATAGGGGAGAA
AAACTACTTTTATTTATGGGCATTATTGACATTCTGCAATCATATAGGTTAATGAAGAAG
TTAGAACATTCCTGGAAAGCTCTTGTATGATGGGGACACTGTTTCTGTTCATAGACCA
AGCTTTTATGCAGACAGATTTCTTAAGTTCATGAATCCAGAGTTTTCAAGAAAAATCAA
GCTTTGAAGGCTTCACCGTCTAAGAAAACGGTGAATTC AATCGCGCCCTAAAGGCCACT
TCACAGGAGATTGTGCTCAATTAGCCAGGAATGGAAGGATGAGAAGCGGGATTGCTG
ACTGAAGGACAAAAGTTTTAGCAGCCTTGATGAAGAAGCCCTGGGATCCCGACACAGGCCA
GACCTGGTCCCTAGCACTCCATCACTGTTTGAAGCTGCTTCTTGGCAACCACAATTTCA
TCTTCTCCTTATACGTCAATGAGCACTATCCACACGACAGGCCTACACTCTATTCAAAC
AGCAAAGGGTTACCTTCCAGTTCAACATTTACCTTGAAGAGGGGACCATCTACTTGACC
GCTGAGCCCAACACTCTGGAAGTGCAGGATGACAATGCTTCTGTGCTTGACGTCTATTTA
TAA
    
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Clone variation with respect to NM\_003558.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_003558 unedited
TTTAGATTTGTATCCCATTATATAGGCGGCCGCAATTCGCACGAGGCACTGCTCTCCC
TTCGCTGTGGGAAGCGACAACGTCCCGATAACTTGCAGACTGTGGCGCAACTGGTCTTG
GTAGCGGAGGCACCCGAATGCTGCCCGGGTGAAGAACCTGGCAAAGAAAACGGTCTCGAC
AATGAGTAGGCCACCCATCACTACTAACTACAGATGACTTGCCATTTTATTTACAAGAT
GTCTTCTGCTGCTGAAAATGGAGAGGCAGCACCTGGAAAACAAAATGAAGAAAAAACCCTA
TAAAAAGACTGCATCATCTGCTATTAAGGTGCTATTCAGCTGGGAATAGGATACACAGT
GGGTAATCTCACTTCCAAGCCAGAACGAGATGTTCTTATGCAAGACTTTTATGTGGTGGA
AAGTGTGTTCTACCCAGCGAAGGGAGCAATCTGACCCAGCACATCACTACCCAGACTT
TAGATTTAAGACATACGCTCCATTAGCATTCCGATATTTTCAGAGAACTTTTTGGTATCAA
GCCTGATGATTACTTGTATTCCATCTGCAGTGAACCTCTAATAGAAGTGTCTAACCTGG
AGCCAGTGGATCCTTGTTTTTTGTGACCAGTATGATGAATTTATCATCAAAACAGTTCA
GCACANAGAAGCTGAGTTTCTTCAAGAAGCTACTGCCAGGCTATTACATGAATTTTAACC
AGATCCNANGACTCTTTTGC AAAATTTACNGACTGTATTGTATGCAATCAGGAGGCATT
AATATCAGGGATGTGGTGATGAACCANNCGTTTGNCCACGCTCATGAGAATGCACTTTA
CATATGACTTTGAAGGGCTCACGTATAAGCGAAGAGCATCCCGTAAAGAGAGAGAGAAAAT
CCACCCCATTTTAGGACTTAGATTCTGCTGCC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003558 unedited GTACCGCGGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGAGAACAAAATATT TTATTTCTCTCACAAAATATAGTTTACAGTAGTATTTACTAAATAAATTATATAATTTT TCTTTTACAAGCAATAAACTAGATCACAAATATTTCAAAGACAATGTATGTACACGACAT AAGGCCTTTTATAAATAGCTTTTGCTTTTCTCATTCTACTAGTAAACAGTGAAAAATCTT TATAGAAGCTAGTTTTCTATAAAGTGAAGGCAGACCTAGTATATTGATCTTTAAATGAAA CCAATTTAAACTTTCAATGACATGAACATAATTTTGCAAAAAGAATTTTACTTAATTTA CCATGTGTGGATGGATTTTTAAAAATATATAAGCAGATTACATATGTTGCTTATGTAT AATCACTGGATGCATGCACAATGAAATAATGCAAAAAGTCCATAGGAAAATAGCACTTCCA ACTCCAAAAGGTGATTGGCAATGGTACAGAAAGCAGCTTAAATATAGTTCATGCAGTTC TTCACAGTTCAGCAAGCAACAGCAAATGATAGAATAGGGTAGTATTTTTACATCCCATC TGCTGATCAGCCTGAAGTTGACATCTTGAAAACCTTAAGTCAGGTTGATGATTTCTCTG TGTGTAGTGGGGCTCACCAAGTTGCTGTGGATAATTTTTGGTGCGGAGAACTTCTCTG CCATAACTGTGCTCACGTCCCATCCATGGGCTTAAGCGACCCCATTTTCACTTATAAAT AGACGTTCAGCACCACAACATTGGCTTCCCGCACTTACCAAGAGTTGGGCTCACCGGTCA CATTAAATGGTCCCTCTTCCAAGAAAAGTTGAACCGGAAGCAACCCCTTTGTTGTGCAA AAACGGACGCGCGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003558
<b>Insert Size:</b>	2570 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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_003558.1</a> , <a href="#">NP_003549.1</a>
<b>RefSeq Size:</b>	2764 bp
<b>RefSeq ORF:</b>	1623 bp
<b>Locus ID:</b>	8395
<b>UniProt ID:</b>	<a href="#">O14986</a>
<b>Cytogenetics:</b>	9q21.11
<b>Domains:</b>	PIP5K
<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>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) represents the longer transcript and encodes the longer isoform (2).</p>