

Product datasheet for **SC124045**

PIP5K2 beta (PIP4K2B) (NM_138687) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIP5K2 beta (PIP4K2B) (NM_138687) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIP5K2 beta
Synonyms:	Pip4k2B, PIP5KIIB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138687, the custom clone sequence may differ by one or more nucleotides

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ATGTCGTCCAAC TGCACCAGCACCACGGCGGTGGCGGTGGCGCCGCTCAGCGCCAGCAAGACCAAGACCA  
AGAAGAAGCATTT CGTGTGCCAGAAAGTGAAGCTATTCGGGCCAGCGAGCCGATCCTCAGCGTCTGAT  
GTGGGGGGTGAACCACACGATCAATGAGCTGAGCAATGTTCTGTTCCTGTCATGCTAATGCCAGATGAC  
TTCAAAGCCTACAGCAAGATCAAGGTGGACAATCATCTTCAATAAGGAGAACCTGCCAGCCGCTTTA  
AGTTTAAGGAGTATTGCCCCATGGTGTCCGAAACCTTCGGGAGAGGTTTGAATTGATGATCAGGATTA  
CCAGAATTCAGTGACGCGCAGCGCCCCATCAACAGTGACAGCCAGGGTCGGTGTGGCACGCGTTTCCTC  
ACCACCTACGACCGCGCTTTGTCATCAAGACTGTGTCCAGCGAGGACGTGGCGGAGATGCACAACATCT  
TAAAGAAATACCACAGTTTATAGTGGAGTGTCATGGCAACACGCTTTTGCACAGTTTCTGGGCATGTA  
CCGCTGACCGTGGATGGTGTGGAAACCTACATGGTGGTTACCAGGAACGTGTTACGCCATCGGCTCACT  
GTGCATCGCAAGTATGACCTCAAGGTTTACGGTTGCCAGAGAAGCGAGCGACAAGGAGAAGGCCAAGG  
ACTTGCCAACATTCAAAGACAATGACTTCTCAATGAAGGGCAGAAGCTGCATGTGGGAGAGGAGAGTAA  
AAAGAACTTCTGGAGAACTGAAGCGGGACGTTGAGGAGATTCTCGTTCTGTCCCAGGCTGGAGAATC  
GCTTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_138687 unedited GATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCGGGGTGGGGAT CGGTCCGGGGAGGCCTGAGGCCGCTGGCTTGTGCGCTGTCTCCGCCGCCCTGTTTC GCCGCCGCCGCCGCCGCCGGGCATGTCGTCCAACCTGCACCAGCACCACGGCGGTGGCG GTGGCGCCGCTCAGCGCCAGCAAGACCAAGACCAAGAAGAAGCATTTCTGTGCCAGAAA GTGAAGCTATTCGGGCCAGCGAGCCGATCCTCAGCGTCTGATGTGGGGGTGAACCAC ACGATCAATGAGCTGAGCAATGTTCTGTTCTGTCATGCTAATGCCAGATGACTTCAA GCCTACAGCAAGATCAAGGTGGACAATCATCTCTTCAATAAGGAGAACCTGCCAGCCGC TTTAAGTTTAAGGAGTATTGCCCATGGTGTTCGAAACCTTCGGGAGAGGTTTGAATT GATGATCAGGATTACCAGAATTCAGTGACGCGCAGCGCCCATCAACAGTGACAGCCAG GGTCGGTGTGGCAGCGTTTCTCACCACCTACGACCGCGCTTTGTCATCAAGACTGTG TCCAGCGAGGACGTGGCGGAGATGCACAACATCTTAAAGAAATACCACCAGTTTATAGT GAGTGTATGGCAACACGCTTTTCCACAGTTTCTGGGCATGTACCGNCTGACCCGTGGA TGGTGTGAAACCTACATTGGGGGATCACCAAAAAGGGTGTAAACCATCGGGTCCATTG GGCGCTCGCAAGTTTACCCACAGGGTGTTCGTTGTGCTCCAAAAAGAGCCACAAG GAAGAAGCCGATTTTTTCGCTTTTTTAAAGAAAGAGTTTTCTATAAAAAGGAAAACCT CGTGTGGGAGAAGAAAAAACAACCTCCGACCCAA
Restriction Sites:	Please inquire
ACCN:	NM_138687
Insert Size:	1800 bp
OTI Disclaimer:	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).
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_138687.1 , NP_619632.1
RefSeq Size:	1486 bp
RefSeq ORF:	846 bp
Locus ID:	8396
Cytogenetics:	17q12
Domains:	PIP5K
Protein Families:	Druggable Genome

Protein Pathways: Endocytosis, Fc gamma R-mediated phagocytosis, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system, Regulation of actin cytoskeleton

Gene Summary: The protein encoded by this gene catalyzes the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family. The encoded protein sequence does not show similarity to other kinases, but the protein does exhibit kinase activity. Additionally, the encoded protein interacts with p55 TNF receptor. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) contains alternate 3' exons as compared to transcript variant 1. As a result, variant 2 encodes isoform b, which is shorter and contains a different C-terminus than isoform a encoded by variant 1.