

Product datasheet for SC116981

PIP5K2 alpha (PIP4K2A) (NM_005028) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIP5K2 alpha (PIP4K2A) (NM_005028) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIP5K2 alpha
Synonyms:	PI5P4KA; PIP5K2A; PIP5KII-alpha; PIP5KIIA; PIPK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116981 sequence for NM_005028 edited (data generated by NextGen Sequencing)

```

ATGGCGACCCCGCAACCTAGGGTCTCTGTCCTGGCGAGCAAGACCAAGACCAAGAAG
AAGCACTTCGTAGCGCAGAAAAGTGAAGCTGTTTCGGGCCAGCGACCCGCTGCTCAGCGTC
CTCATGTGGGGGTAAACCACTCGATCAATGAACTGAGCCATGTTCAAATCCCTGTTATG
TTGATGCCAGATGACTTCAAAGCCTATTCAAAAATAAAGGTGGACAATCACCTTTTAAAC
AAAGAAAACATGCCGAGCCATTTCAAGTTTAAGGAATACTGCCCGATGGTCTTCCGTAAC
CTGCGGGAGAGGTTTGAATTGATGATCAAGATTTCCAGAATTCCTGACCAGGAGCGCA
CCCCTCCCAACGACTCCAGGCCCGCAGTGGAGCTCGTTTTCACTTCTACGACAAA
AGATACATCATCAAGACTATTACCAGTGAAGACGTGGCCGAAATGCACAACATCCTGAAG
AAATACCACAGTACATAGTGAATGTCATGGGATCACCTTCTTCCCCAGTTCTTGGGC
ATGTACCGGCTTAATGTTGATGGAGTTGAAATATATGTGATAGTTACAAGAAATGTATTC
AGCCACCGTTTGTCTGTGTATAGGAAATACGACTTAAAGGGCTCTACAGTGGCTAGAGAA
GCTAGTGACAAAAGAAAAGGCCAAAGAAGCTGCCAACTCTGAAAGATAATGATTTTCATTAAT
GAGGGCCAAAAGATTTATATTGATGACAACAACAAGAAGTCTTCTGGAAGAACTAAAA
AAGGATGTTGAGTTTCTGGCCAGCTGAAGTCAATGGACTACAGTCTGCTGGTGGGAATT
CATGATGTGGAGAGAGCCGAACAGGAGGAAGTGGAGTGTGAGGAGAACGATGGGGAGGAG
GAGGGCGAGAGCGATGGCACCCACCCGGTGGGAACCCCGGATAGCCCGGGAATACA
CTGAACAGCTCACCAACCCTGGCTCCCGGGAGTTCGATCCGAACATCGACGCTATGGA
ATTAAGTGCCATGAAAACCTCGCCTAGGAAGGAGGTGTACTTCATGGCAATTATTGACATC
CTTACTATTATGATGCAAAAAAGAAAGCTGCCCATGCTGCAAAAACTGTTAAACATGGC
GCTGGCGCGGAGATCTCCACCGTGAACCCAGAACAGTATTCAAAGCGCTTTTGGACTTT
ATTGGCCACATCTTGACGTAA

```

Clone variation with respect to NM_005028.4



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005028 unedited AGTATTTTGAATACGACTCACTATAGGGCGGCCGCGACTTCGGCACGAGTATATAGGCG GGTCCCCGGCCTCGGGAGCACGGCGGTGGAGGGGACATAGGAGGCGGCCATGGCGACCCC CGGCAACCTATGGTCCTGTCTGGCGAGCAAGACCAAGACCAAGAAGAAGCACTTCGT AGCGCATAAAGTGAAGCTGTTTCGGGCCAGCGACCCGCTGCTCATCGTCCTCATGTGGGG GGTAAACCACTCGATCAATGAAGTGAAGTGGACAATCACCTTTTAAACAAAGAAAACAT TGACTTCAAAGCCTATTCAAAAATAAAGGTGGACAATCACCTTTTAAACAAAGAAAACAT GCCGAGCCATTTCAAGTTTAAGGAATACTGCCCGATGGTCTTCCGTAACCTGCGGGAGAG GTTTGGAATTGATGATCAAGATTTCCAGAATTCCTGACCAGGAGCGCACCCCTCCCAA CGACTCCCAGGCCCGCAGTGGAGCTCGTTTTACACTTCTACGACAAAAGATACATCAT CAAGACTATTACCAGTGAAGACGTGGCCGAAATGCACAACATCCTGAAGAAATACCACCA GTACATAGTGGAAATGTCATGGGATCACCTTCTCCCCAGTTCTTGAGCATGTACCGGCT TAATGTTGATGGAGTTGAAATATATGTGATAGTTACAAGATATGTATTACGCCACCGTTT GTCTGTGTATATGAAATACGACTTATAGGGCTCTACAGTGGCTAGAGAAGCTAGTGACAT AGATAAGGCCAAAGAAGTCCCACTCTGNNAAGATATGATCTCATGAATGAGGGCCANNA GATTATATTGATGACCACACAAGAAGGTCTTCTGGGAAACTANAAAGGATGTGAGTTTCT GGCCCACTGAGCTCATGACTACATCTGCTGTGGGATTCTGATGTGGANAGCAACAGN AGNATTG
Restriction Sites:	NotI-NotI
ACCN:	NM_005028
Insert Size:	3900 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_005028.3 , NP_005019.2
RefSeq Size:	1781 bp
RefSeq ORF:	1221 bp
Locus ID:	5305
UniProt ID:	P48426
Cytogenetics:	10p12.2
Domains:	PIP5K

Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Phosphatidylinositol signaling system, Regulation of actin cytoskeleton
Gene Summary:	<p>Phosphatidylinositol-5,4-bisphosphate, the precursor to second messengers of the phosphoinositide signal transduction pathways, is thought to be involved in the regulation of secretion, cell proliferation, differentiation, and motility. The protein encoded by this gene is one of a family of enzymes capable of catalyzing the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. The amino acid sequence of this enzyme does not show homology to other kinases, but the recombinant protein does exhibit kinase activity. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>