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Product datasheet for SC107219

PIP5KI gamma (PIP5K1C) (NM_012398) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIP5KI gamma (PIP5K1C) (NM_012398) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIP5KI gamma
Synonyms:	LCCS3; PIP5K-GAMMA; PIP5K1-gamma; PIP5Kgamma
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF sequence for NM_012398 edited
GCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTATAG
AATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGAATTCGGCACGAGGCAGCTCGGGTC
CCCCTCGGGCGCCCCCGCCGCCGTCCGCGCGCGGCCATGGAGCTGGAGGTACCGGACGAG
GCGGAGAGCGCTGAGGCGGGGGCCGTGCCCTCGGAGGCGGCGTGGGCGGCAGAGAGCGGG
GCGGCGGCAGGTTTGGCTCAGAAGAAGGCGGCCCCAACAGAGGTTCTGTCCATGACGGCA
CAGCCGGGCCCTGGCCATGGGAAGAAGTTGGGCCATCGAGGTGTGGACGCATCCGGCGAA
ACCACCTACAAGAAGACCACCTCCTCCACCCTGAAGGGTGCCATCCAGCTGGGCATCGGC
TACACCGTGGGCCACCTGAGCTCCAAGCCCGAACGCGACGTGCTCATGCAGGACTTCTAC
GTGGTGGAGAGCATCTTCTTCCCCAGCGAAGGCAGCAACCTCACCCCCGCCCACCACTTC
CAGGACTTCCGCTTCAAGACCTATGCACCTGTCGCCTTCCGCTACTTCCGGGAGCTCTTT
GGGATCCGGCCAGATGATTACTTGTACTCCCTGTGCAATGAGCCGCTGATCGAGCTGTCC
AACCCGGGCGCCAGTGGCTCCCTCTTCTACGTCACCAGCGACGACGAGTTCATCATCAAG
ACCGTCATGCACAAGGAGGCCGAGTTCCTGCAGAAGCTGCTCCCTGGCTACTACATGAAC
CTCAACCAGAACCCGCGGACGCTGCTGCCCAAGTTCTATGGGCTGTACTGCGTGCAGTCA
GGGGGCAAGAACATCCGCGTCGTGGTCATGAACAACATCCTGCCCCGCGTGGTCAAGATG
CACCTCAAGTTCGACCTCAAGGGCTCCACCTACAAGCGGCGCGCCAGCAAGAAGGAGAAG
GAGAAGAGCTTCCCCACCTACAAGGACCTGGACTTCATGCAGGACATGCCCGAGGGGCTC
CTGCTGGACGCCGACACCTTCAGCGCCCTGGTCAAGACGCTGCAGCGGGACTGCCTGGTC
CTGGAAAGTTTCAAGATCATGGACTACAGCCTGCTGCTGGGCGTGCACAACATCGACCAG
CACGAGCGCGAGCGGCAGGCGCAGGGCGCCCAGAGCACCTCAGATGAGAAGCGGCCTGTG
GGCCAGAAGGCGCTCTACTCCACGGCCATGGAGTCCATCCAGGGTGGCGCCGCGCGCGGG
GAGGCCATCGAATCGGATGACACGATGGGCGGGATCCCCGCTGTGAACGGCCGCGGGGAG
CGGCTGCTGCTGCACATTGGCATCATCGACATCCTGCAGTCCTACAGGTTCATCAAGAAA
CTGGAGCACACCTGGAAGGCCCTCGTCCACGATGGGGACACGGTGTCCGTCCACCGCCCC
AGCTTCTATGCCGAGCGCTTTTTCAAGTTCATGAGCAACACGGTCTTTCGGAAGAACTCC
TCCCTGAAGTCCTCGCCCTCCAAGAAGGGGCGCGGCGGAGCCTTGCTAGCTGTGAAACCG
CTGGGGCCCACCGCTGCCTTCTCGGCCAGCCAGATCCCTAGCGAGCGGGAGGAGGCCCAG
TACGACCTGCGGGGGGCCCGCAGCTACCCCACGCTGGAGGACGAAAGCCGGCCCGACCTC
CTGCCCTGCACGCCACCTTCTTTCGAAGAAGCCACTACAGCCTCCATTGCCACGACTCTG
TCATCCACATCCCTCTCCATTCCTGAGCGGTCCCCCTCGGAGACGTCGGAGCAGCCGCGG
TACAGGCGGCGCACACAGTCGTCTGGACAGGATGGCAGGCCGCAGGAGGAGCCACCCGCG
GAAGAGGATCTGCAGCAGATTACAGTGCAGGTGGAGCCTGCGTGCAGCGTGGAGATTGTG
GTCCCCAAAGAGGAGGACGCAGGGGTGGAGGCTTCCCCGGCCGGTGCCTCTGCTGCTGTT
GAAGTAGAAACTGCCAGCCAGGCCTCAGACGAGGAGGGCGCACCTGCCAGCCAGGCCTCG
GACGAGGAGGACGCGCCCGCCACCGACATCTACTTTCCCACCGATGAGAGGAGCTGGGTG
TACTCCCCGCTCCACTATAGCGCCCAGGCCCCCCCGGCCTCCGACGGCGAGAGCGACACA
TAATTTCTATGCAGCCCCCGACCCAGAGCCGAGCTCCACTTCTGCTCCGGCTGCCCCCGA
AGGCGCTGCCCACCCCGCTGAGGCCCAGAGCTCGGGAGATGCCCGCCTCGCCGCCCCACC
GGACCTCGTCCTCCCCCTGCACGGATGCCGACGGCCGGGCCCCTCCCCGACAAGCCTCCC
AGGGCCCCGGCACCCCGGTCGGCAGCCTGCCCCTGTGAGATCCACCCTCCCG

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_012398 unedited
CTGAATTCCCCGCCCGTTGCACCCATAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATAT
AAGCAGTATCTGGGTTAGGTGACACTATAAAAACCAAGCTACTTGTTCTTTTTGCAGCGG
CCGCGAATTCGGCACGAGGCAGCTCGGGTCCCCCTCGGGCGCCCCCGCCGCCGTCCGCGC
GCGGCCATGGAGCTGGAGGTACCGGACGAGGCGGAGAGCGCTGAGGCGGGGGCCGTGCCC
TCGGAGGCGGCGTGGGCGGCAGAGAGCGGGGCGGCGGCAGGTTTGGCTCAGAAGAAGGCG
GCCCCAACAGAGGTTCTGTCCATGACGGCACAGCCGGGCCCTGGCCATGGGAAGAAGTTG
GGCCATCGAGGTGTGGACGCATCCGGCGAAACCACCTACAAGAAGACCACCTCCTCCACC
CTGAAGGGTGCCATCCAGCTGGGCATCGGCTACACCGTGGGCCACCTGAGCTCCAAGCCC
GAACGCGACGTGCTCATGCAGGACTTCTACGTGGTGGAGAGCATCTTCTTCCCCAGCGAA
GGCAGCAACCTCACCCCCGCCCACCACTTCCAGGACTTCCGCTTCAAGACCTATGCACCT
GTCGCCTTCCGCTACTTCCGGGAGCTCTTTGGGATCCGGCCAGATGATTACTTGTACTCC
CTGTGCAATGAGCCGCTGATCGAGCTGTCCAACCCGGGCGCCAGTGGCTCCCTCTTCTAC
GTCACCAGCGACGACGAGTTCATCATCAAGACCGTCATGCACAANGGAGCCCGAGTTCCT
GCAGAAGCTGCTCCCTGGCTACTACATGAAACCTCANCCAGGACCCCGCGGGACGCTGCT
TGCCCAAGTTCTATGGGCTGGACTGCGTGCAGTCAGGGGGCAAGAACATTCGCGTCGTGG
TCATGAACAACATCCTGCCCGGCGTGGTCAAAT
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Restriction Sites: NotI-NotI

ACCN: NM_012398

Insert Size: 6000 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:
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_012398.1, NP_036530.1

RefSeq Size: 5047 bp

RefSeq ORF: 2007 bp

Locus ID: 23396

UniProt ID: O60331

Cytogenetics: 19p13.3

Protein Families: Druggable Genome

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

Gene Summary: This locus encodes a type I phosphatidylinositol 4-phosphate 5-kinase. The encoded protein catalyzes phosphorylation of phosphatidylinositol 4-phosphate, producing phosphatidylinositol 4,5-bisphosphate. This enzyme is found at synapses and has been found to play roles in endocytosis and cell migration. Mutations at this locus have been associated with lethal congenital contractural syndrome. Alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Sep 2010]
Transcript Variant: This variant (2) contains an alternate, in-frame exon in the 3' coding region compared to variant 1. The encoded isoform (2, also known as PIPKIgamma668 and PIPKIgamma90) is longer and has a distinct C-terminus, compared to isoform 1.