

## Product datasheet for **RC215828**

### PIP5KI gamma (PIP5K1C) (NM\_012398) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIP5KI gamma (PIP5K1C) (NM_012398) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIP5KI gamma
Synonyms:	LCCS3; PIP5K-GAMMA; PIP5K1-gamma; PIP5Kgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC215828 representing NM\_012398  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGCTGGAGGTACCGACGAGGCGGAGAGCGCTGAGGCGGGGCGTGCCTCGGAGGCGCGTGGG  
CGGCAGAGAGCGGGCGGCGGCAGGTTTGGCTCAGAAGAAGGCGGCCCAACAGAGGTTCTGTCCATGAC  
GGCACAGCCGGCCCTGGCCATGGGAAGAAGTTGGCCATCGAGGTGTGGACGCATCCGGCGAAACCACC  
TACAAGAAGACCACCTCCTCCACCCTGAAGGGTGCATCCAGCTGGGCATCGGCTACACCGTGGGCCACC  
TGAGCTCCAAGCCGAACCGCAGCTGCTCATGCAGGACTTCTACGTGGTGGAGAGCATCTTCTCCCCAG  
CGAAGGCAGAACCTCACCCCGCCACCATTCCAGGACTTCCGCTTCAAGACCTATGCACCTGTCGCC  
TTCGGCTACTTCCGGGAGCTCTTTGGGATCCGGCCAGATGATTACTTGTACTCCCTGTGCAATGAGCCG  
TGATCGAGCTGTCAACCCGGGCGCCAGTGGCTCCCTTCTACGTACCAGCGACGACGAGTTCATCAT  
CAAGACCGTCATGCACAAGGAGGCGGATTCCTGCAGAAGCTGCTCCCTGGCTACTACATGAACCTCAAC  
CAGAACC CGGGACGCTGCTGCCAAGTTCATGGGCTGTACTGCGTGCAGT CAGGGGGCAAGAATCC  
GCGTCGTGGTCATGAACAACATCCTGCCCGCGTGGTCAAGATGCACCTCAAGTTCGACCTCAAGGGCTC  
CACCTACAAGCGGCGCGCCAGCAAGAAGGAGAAGGAGAAGAGCTTCCCCACCTACAAGGACCTGGACTTC  
ATGCAGGACATGCCCGAGGGGCTCCTGTGGACGCCGACCTTCAGCGCCCTGGTCAAGACGCTGCAGC  
GGGACTGCCTGGTCTGGAAAGTTTCAAGATCATGGACTACAGCTGTGCTGGGCGTGCACAACATCGA  
CCAGCACGAGCGGAGCGGCAGGCGCAGGGCGCCAGAGCACCTCAGATGAGAAGCGGCTGTGGCCAG  
AAGGCGCTCTACTCCACGGCCATGGAGTCCATCCAGGGTGGCGCCGCGCGGGGAGGCCATCGAATCGG  
ATGACACGATGGGCGGGATCCCCGCTGTGAACGCGCCGCGGGGAGCGGCTGCTGCTGCACATTGGCATCAT  
CGACATCCTGCAGTCTACAGTTCATCAAGAACTGGAGCACACCTGGAAGGCCCTCGTCCACGATGGG  
GACACGGTGTCCGTCCACCGCCCGACTTCTATGCCGAGCGCTTTTTCAAGTTCATGAGCAACACGGTCT  
TTCGGAAGAACTCCTCCCTGAAGTCTCGCCCTCCAAGAAGGGCGCGCGGAGCCTTGCTAGCTGTGAA  
ACCGCTGGGGCCACCGCTGCCTTCTCGGCCAGCCAGATCCCTAGCGAGCGGGAGGAGGCCAGTACGAC  
CTGCGGGGGCCCGCAGCTACCCACGCTGGAGGACGAAGGCCGGCCGACCTCCTGCCCTGCACGCCAC  
CTTCTTTGAAGAAGCCACTACAGCTCCATTGCCAGACTCTGTATCCACATCCCTCTCCATTCTGA  
GCGGTCCCCTCGGAGACGTGGAGCAGCCGCGGTACAGGCGGCGCACACAGTGTGGACAGGATGGC  
AGGCCGACAGGAGGCCACCCGCGGAAGAGGATCTGCAGCAGATTACAGTGCAGGTGGAGCCTGCGTGCA  
GGTGGAGATTGTGGTCCCAAAGAGGAGGACGAGGGGTGGAGGCTTCCCGGCCGGTGCCTCTGCTGC  
TGTTGAAGTAGAACTGCCAGCCAGGCCTCAGACGAGGAGGGCGCACCTGCCAGCCAGGCCCTCGGACGAG  
GAGGACGCGCCCGCCACCGACATCTACTTTCCACCGATGAGAGGAGCTGGGTGTACTCCCGCTCCACT  
ATAGCGCCAGGCCCCCGGCTCCGACGGCGAGAGCGACACA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215828 representing NM\_012398  
Red=Cloning site Green=Tags(s)

MELEVPDEAESAEAGAVPSEAAWAESGAAAGLAQKKAAPTEVL SMTAQPGPGHGKKLGHKRGVDASGETT  
YKTTSSSTLKGAIQLGIGYTVGHLSKPERDVLMDQDFYVVESIFFPSEGSNLTPAHHFQDFRFTYAPVA  
FRYFRELFGIRPDDYLYSLCNEPLIELSNPGASGLFYVTSDDDEFIIKTMHKEAEFLQKLLPGYMNLN  
QNPRTLLPKFYGLYCVQSGGKNIRVVMMNIIIPRVVKMHLKFDLKGSTYKRRASKKEKEKSFTYKDLDF  
MQDMEGLLLDADTF SALVKTLQRDCLVLESFKIMDYSLLLGVHNIDQHERERQAQGAQSTSDEKRPVQ  
KALYSTAMESIQGGAARGEAIESDDTMGGIPAVNGRGERLLHIGIIDILQSYRFIKKLEHTWKALVHDG  
DTVSVHRPSFYAERFFKFSNNTVFRKNSLSSPSKKGKGGALLAVKPLGPTAAF SASQIPSEREEAQYD  
LRGARSYPTLEDEGRDLLPCTPPSFEEATTASIATLSTSLIPERSPSETSEQPRYRRRTQSSGQDG  
RPQEPPAEEDLQQITVQVEPACSVEIVVPKEEDAGVEASPAGASAAVEVETASQASDEEGAPASQASDE  
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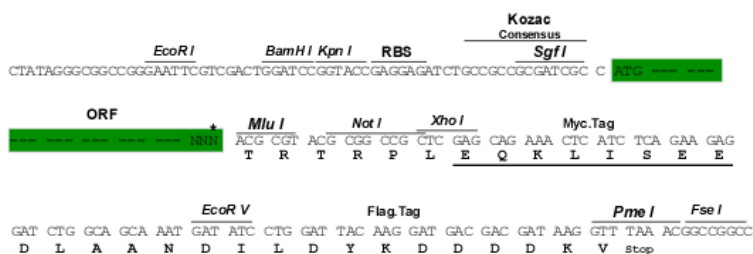
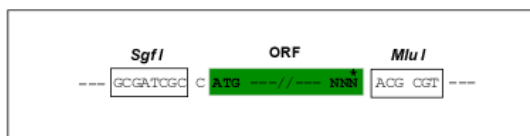
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2439\\_g12.zip](https://cdn.origene.com/chromatograms/mg2439_g12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_012398

**ORF Size:** 2004 bp

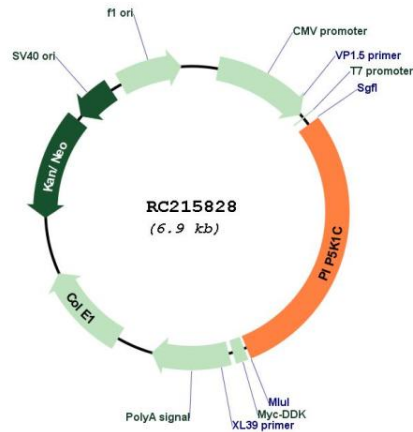
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

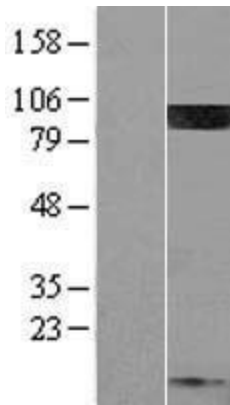
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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_012398.3</a>
<b>RefSeq Size:</b>	5047 bp
<b>RefSeq ORF:</b>	2007 bp
<b>Locus ID:</b>	23396
<b>UniProt ID:</b>	<a href="#">O60331</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Endocytosis, Fc gamma R-mediated phagocytosis, Focal adhesion, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system, Regulation of actin cytoskeleton
<b>MW:</b>	73.1 kDa
<b>Gene Summary:</b>	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]

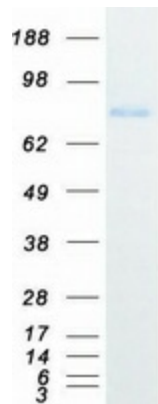
Product images:



Circular map for RC215828



Western blot validation of overexpression lysate (Cat# [LY402206]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215828 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PIP5K1C protein (Cat# [TP315828]). The protein was produced from HEK293T cells transfected with PIP5K1C cDNA clone (Cat# RC215828) using MegaTran 2.0 (Cat# [TT210002]).