

Product datasheet for **RG231345**

PIP5KI gamma (PIP5K1C) (NM_001195733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIP5KI gamma (PIP5K1C) (NM_001195733) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIP5K1C
Synonyms:	LCCS3; PIP5K-GAMMA; PIP5K1-gamma; PIP5Kgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231345 representing NM_001195733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTGGAGGTACCGGACGAGGCGGAGAGCGCTGAGGCGGGGCGTGCCTCGGAGGCGCGTGGG
 CGGCAGAGAGCGGGCGGCGGCAGGTTTGGCTCAGAAGAAGGCGGCCCAACAGAGGTTCTGTCCATGAC
 GGCACAGCCGGCCCTGGCCATGGGAAGAAGTTGGCCATCGAGGTGTGGACGCATCCGGCGAAACCACC
 TACAAGAAGACCCTCTCCACCCTGAAGGGTGCATCCAGCTGGGCATCGGCTACACCGTGGGCCACC
 TGAGCTCAAGCCGAACGCGACGTGCTCATGCAGGACTTCTACGTGGTGGAGAGCATCTTCTCCCCAG
 CGAAGGCAGAACCTCACCCCGCCACCATTCCAGGACTTCCGCTTCAAGACCTATGCACCTGTCGCC
 TCCGCTACTTCCGGGAGCTCTTTGGGATCCGGCCAGATGATTACTTGTACTCCCTGTGCAATGAGCCG
 TGATCGAGCTGTCAACCCGGGCGCCAGTGGCTCCCTCTTCTACGTCACCAGCGACGACGAGTTCATCAT
 CAAGACCGTCATGCACAAGGAGGCGGAGTTCCTGCAGAAGCTGCTCCCTGGCTACTACATGAACCTCAAC
 CAGAACC CGGGACGCTGCTGCCAAGTTCATGGGCTGTACTGCGTGCAGTCCGGGGGCAAGAATCC
 GCGTCGTGGTCATGAACAACATCCTGCCCGCGTGGTCAAGATGCACCTCAAGTTCGACCTCAAGGGCTC
 CACCTACAAGCGGCGCGCCAGCAAGAAGGAGAAGGAGAAGAGCTTCCCCACCTACAAGGACCTGGACTTC
 ATGCAGGACATGCCCGAGGGGCTCCTGTGGACGCCGACACCTTCAGCGCCCTGGTCAAGACGCTGCAGC
 GGGACTGCCTGGTCTGGAAAGTTTCAAGATCATGGACTACAGCCTGTGCTGGGCGTGCACAACATCGA
 CCAGCACGAGCGGAGCGGCAGGCGCAGGGCGCCAGAGCACCTCAGATGAGAAGCGGCTGTGGGCCAG
 AAGGCGCTCTACTCCACGGCCATGGAGTCCATCCAGGGTGGCGCCGCGCGGGGAGGCCATCGAATCGG
 ATGACACGATGGGCGGGATCCCCGCTGTGAACGGCCGCGGGGAGCGGCTGCTGCTGCACATTGGCATCAT
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 TTCGGAAGAACTCCTCCCTGAAGTCTCGCCCTCCAAGAAGGGCGCGCGGAGCCTTGCTAGCTGTGAA
 ACCGCTGGGGCCACCGCTGCCTTCTCGGCCAGCCAGATCCCTAGCGAGCGGGAGGAGGCCAGTACGAC
 CTGCGGGGGCCCGCAGTACCCACGCTGGAGGACGAAGGCCGGCCGACCTCCTGCCCTGCACGCCAC
 CTTCTTTCAAGAAGCCACTACAGCCTCCATTGCCAGACTCTGTATCCACATCCCTCTCCATTCTGA
 GCGGTCCCCTCGGAGACGTGGAGCAGCCGCGGTACAGGCGGCGCACACAGTCTGTGGACAGGATGGC
 AGGCCGACAGGAGGCCACCCGCGGAAGAGGATCTGCAGCAGATTACAGTGCAGGTGGAGCCTGCGTGC
 GCGTGGAGATTGTGGTCCCCAAGAGGAGGACGCAAGGGTGGAGGCTTCCCCGGCCGGTGCCTCTGCTGC
 TGTGAAGTAGAAACTGCCAGCCAGGCCTCAGACGAGGAGGGCGCACCTGCCAGCCAGGCCTCGGACGAG
 GAGGACGCGCCCGCCACCGACATCTACTTT

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231345 representing NM_001195733
 Red=Cloning site Green=Tags(s)

MELEVPDEAESAEAGAVPSEAAWAAESGAAAGLAQKKAAPTEVL SMTAQPGPHGKKGHRGVDASGETT
 YKKTSSSTLKGAIQLGIGYTVGHLSSKPERDVL MQDFYVVESEIFFPSEGSNLTPAHHFQDFRFKYAPVA
 FRYFRELFGIRPDDYLYSLCNEPLIELSNPGASGSLFYVTSDEFI IKTVMHKEAEFLQKLLPGYYMNLN
 QNPRTLLPKFYGLYCVQSGGKNIRVVMMNINILPRVVKMHLKFDLKGSTYKRRASKKEKESFPTYKDLDF
 MQDMPEGLLLDADTF SALVKTLQRDCL VLESFKIMDYSLLLGVHNIDQHERERQAQGAQSTSDEKRPVQ
 KALYSTAMESIQGAARGEAIESDDTMGGIPAVNGRGERLLLHIGIIDILQSYRF IKKLEHTWKALVHDG
 DTVSVHRPSFYAERFFKMSNTVFRKNSSLSKSSPSKGRGGALLAVKPLGPTAAF SASQIPSEREEAQYD
 LRGARSYPTLEDEGRPDLLPCTPPSFEEATTASIAATLSSTLSIPERSPSETSEQPRYRRRTQSSGQDG
 RPQEPPAEEDLQQITVQVEPACSV EIVVPKEEDAGVEASPAGASAAVEVETASQASDEEGAPASQASDE
 EDAPATDIYF

TRTRPLE – GFP Tag – V

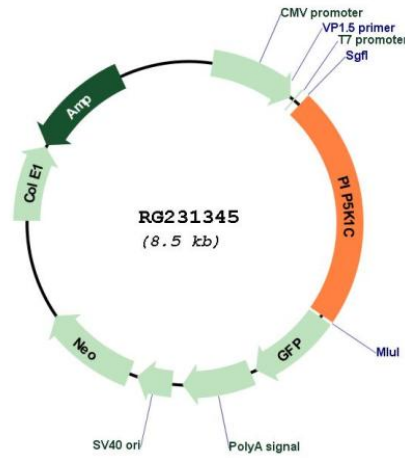
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001195733

ORF Size: 1920 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).
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_001195733.2
RefSeq Size:	4998 bp
RefSeq ORF:	1923 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]