

Product datasheet for **RC218338**

PIP5K2 beta (PIP4K2B) (NM_003559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIP5K2 beta (PIP4K2B) (NM_003559) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIP5K2 beta
Synonyms:	PI5P4KB; PIP5K2B; PIP5KIIIB; PIP5KIIbeta; PIP5P4KB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218338 representing NM_003559 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTC**CAACTGCACCAGCACCAGCGCGGTGGCGGTGGCGCCGCTCAGCGCCAGCAAGACCAAGACCA**
AGAAGAAGCATTTCGTGTCCAGAAAGTGAAGCTATCCGGGCCAGCGAGCCGATCCTCAGCGTCTCTGAT
GTGGGGGTGAACCACACGATCAATGAGCTGAGCAATGTTCTGTCTCTGTCATGCTAATGCCAGATGAC
TTCAAAGCCTACAGCAAGATCAAGGTGGACAATCATCTCTTCAATAAGGAGAACCTGCCAGCCGCTTTA
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ACCACCTACGACCGCGCTTTGTCAAGACTGTGTCCAGCGAGGACGTGGCGGAGATGCACAACATCT
TAAAGAAATACCACAGTTTATAGTGGAGTGTCATGGCAACACGCTTTTCCACAGTTTCTGGGCATGTA
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CTGCTGGTGGGCATCCACGACGTGGACCGGGCAGAGCAGGAGGAGATGGAGGTGGAGGAGCGGGCAGAGG
ACGAGGAGTGTGAGAATGATGGGTGGTGGCAACCTACTCTGCTCCTATGGCACACCTCCGGACAGCCC
TGGCAACCTCCTCAGCTTTCTCGGTTCTTTGGTCTGGGGAATTCGACCCCTCTGTTGACGTCTATGCC
ATGAAAAGCCATGAAAGTCCCCAAGAAGGAGGTGATTTTCATGGCCATCATTGATATCCTCACGCCAT
ACGATACAAGAAGAAGCTGCACATGCTGCCAAAACGGTGAACACGGGGCAGGGGCCGAGATCTCGAG
TGTGAACCCTGAGCAGTACTCCAACGCTTCAACGAGTTTATGTCCAACATCCTGACG

AC**CGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAA
TTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218338 representing NM_003559
 Red=Cloning site Green=Tags(s)

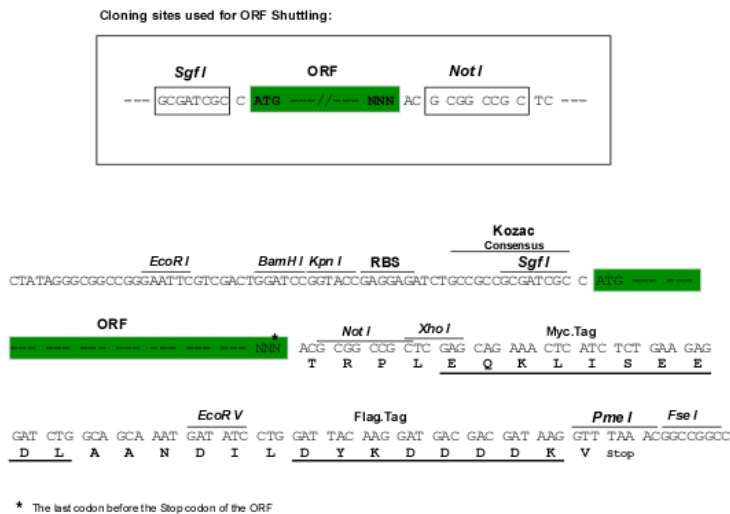
MSSNCTSTTAVAVAPLSASKTKTKKKHFVCQVKLFRASEPILSVLMWGVNHTINELSNVPVVMLPDD
 FKAYSKIKVDNHLFNKENLPSRFKFKKEYCPMVFRNLRERFGIDDQDYQNSVTRSAPINSDSQGRCGTRFL
 TTYDRRFVIKTVSSEDVAEMHNILKKYHQFIVECHGNTLLPQFLGMYRLTVDGVEYTMVVTRNVFSHRLT
 VHRKYDLKGSTVAREASDKEKAKDLPTFKDNDFLNEGQKLHVGEESKKNFLEKLRDVEFLAQLKIMDYS
 LLVGIHDVDRAEQEEMEVEERADECECENDGVGGNLLCSYGTTPDSPGNLLSFPRFFGPGEFDPSVDVYA
 MKSHESSPKKEYVFMAIIDILTPYDTKKKAAHAAKTVKHGAGAEISTVNPEQYSKRFNEFMSNILT

TRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6274_g10.zip

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: NM_003559

ORF Size: 1248 bp

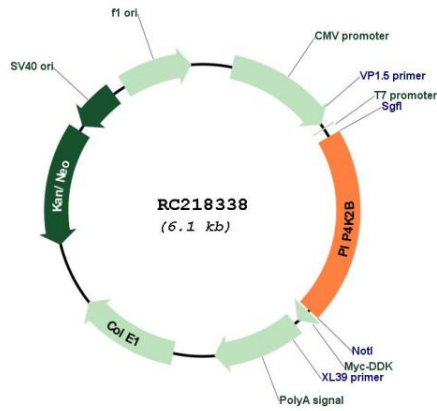
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

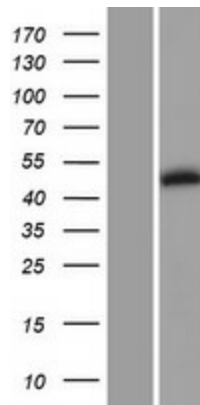
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_003559.4
RefSeq Size:	3878 bp
RefSeq ORF:	1251 bp
Locus ID:	8396
UniProt ID:	P78356
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
MW:	47.2 kDa
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]

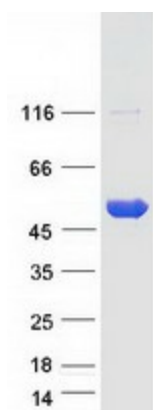
Product images:



Circular map for RC218338



Western blot validation of overexpression lysate (Cat# [LY418600]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218338 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PIP4K2B protein (Cat# [TP318338]). The protein was produced from HEK293T cells transfected with PIP4K2B cDNA clone (Cat# RC218338) using MegaTran 2.0 (Cat# [TT210002]).