

Product datasheet for **RC230841**

PI4KB (NM_001198775) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PI4KB (NM_001198775) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PI4KB
Synonyms:	NPIK; PI4K-BETA; PI4K92; PI4KBETA; PI4KIII; PI4KIIIBETA; PIK4CB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230841 representing NM_001198775
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAGATACAGTAGTGGAGCCTGCCCCCTTGAAGCCAACCTTCTGAGCCCACTTCTGGCCACCAGGGA
 ATAATGGGGGTCCTTGCTAAGTGTATCACGGAGGGGTCGGGAACTATCAGTGATTGACCCCTGAGGT
 GGCCAGAAAGCCTGCCAGGAGGTGTTGGAGAAAGTCAAGCTTTTGCATGGAGGCGTGGCAGTCTTAGC
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 CTGCCAGATCAGGGAGGAGGAAGATGAGATGGGGCCGCTGTGGCCTCAGGCACAGCCAAAGGAGCAAG
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 GCCAGCATAAGTCTCAGCAGCAACCTGAAACGAACAGCCAGCAACCCCTAAAGTGGAGAATGAGGATGAGC
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 CGAGTGGCTGCCACTGTGGCTTTGACCACACGTTGGTCCGTGTACCCACACACAGGCTTTGTGTC
 TCAACTCAAGGACAAGGCTCCCTACCTGATTTATGTGGAAGTCCCTGAATGTGAAAACCTTTGACACCAC
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 CAGCTGCTGGTGGAGCAGATGGTGGATGGCAGTATGCGGTCTATCACCAACAACTCTATGACGGCTTCC
 AGTACCTACCAACGGCATCATG

ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230841 representing NM_001198775
 Red=Cloning site Green=Tags(s)

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MGDTVVEPAPLKPTSEPTSGPPGNNGSLLSVITEGVGELSVIDPEVAQKACQEVLEKVKLLHGGVAVSS
RGTPLELVNGDGDSEIRCLDDPPAQIREEEDEMGAAVASGTAKGARRRRQNSAKQSWLLRLFESKLF
ISMAISYLYNSKEPGVQAYIGNRLF CFRNEDVDFYLPQLLNMYIHMDDEDVGD AIKPYIVHRCRQSINFS
L
QCALLLGAYSSDMHISTQRHSRGTCLRKLILSDELKPAHRKRELPSLSPAPDTGLSPSKRTHQRSKSDAT
ASISLSSNLKRTASNPKVENEDEPVRLAPEREFIKSLMAIGKRLATLPTKEQKTQRLISELSLLNHKLP
ARVWLPTAGFDHHVVRVPHQAVVLNSKDKAPYLIYVEVLECFDFTTSV PARIPENRIRSTRSVENLPEC
GITHEQRAGSFSTVPNYDNDDEAWSVDDIGELQVELPEVHTNSCDNISQFSVDSITSQESKEPVFIAAGD
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FQVLKQLQSIWEQERVPLWIKPYKILVISADSGMIEPVVNAVSIHQVKKQSQLSLLDYFLQEHGYSYTT
EA
FLSAQRNFVQSCAGYCLVCYLLQVKDRHNGNILLDAEGHIIHIDFGFILSSSPRNLGFETSAFKLTTEFV
DVMGGLDGMFNYYKMLMLQGLIAARKHMDKVQIVEIMQQGSQLPCFHGSSTIRNLKERFHMSMTEEQL
QLLVEQMVDGSMRSITTKLYDGFQYLTNGIM
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001198775

ORF Size: 2406 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:

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_001198775.1](#), [NM_001198775.2](#), [NP_001185704.1](#)

RefSeq Size: 2939 bp

RefSeq ORF: 1455 bp

Locus ID: 5298

UniProt ID: [Q9UBF8](#)

Cytogenetics: 1q21.3

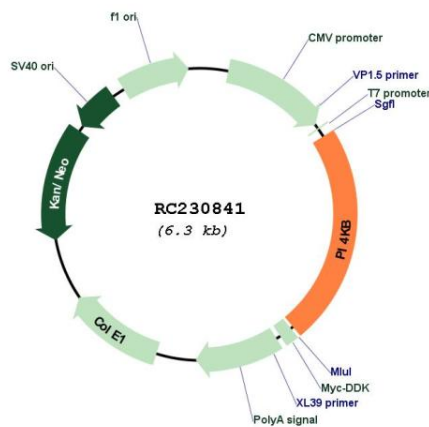
Protein Families: Druggable Genome

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

MW: 89.8 kDa

Gene Summary: Phosphorylates phosphatidylinositol (PI) in the first committed step in the production of the second messenger inositol-1,4,5,-trisphosphate (PIP). May regulate Golgi disintegration/reorganization during mitosis, possibly via its phosphorylation. Involved in Golgi-to-plasma membrane trafficking (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC230841