

## Product datasheet for **RC234900**

### PI4KB (NM\_001198774) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PI4KB (NM_001198774) 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:**

>RC234900 representing NM\_001198774  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGAGATACAGTAGTGGAGCCTGCCCCCTTGAAGCCAACCTCTGAGCCCACTTCTGGCCACCAGGGA  
 ATAATGGGGGGTCCCTGCTAAGTGTATCACGGAGGGGGTCGGGAACTATCAGTGATTGACCCCTGAGGT  
 GGCCAGAAAGCCTGCCAGGAGGTGTTGGAGAAAGTCAAGCTTTTGCATGGAGGCGTGCCAGTCTCTAGC  
 AGAGGCACCCCACTGGAGTTGGTCAATGGGGATGGTGTGGACAGTGAATCCGTTGCCTAGATGATCCAC  
 CTGCCAGATCAGGGAGGAGGAAGATGAGATGGGGCCGCTGTGGCCTCAGGCACAGCCAAAGGAGCAAG  
 AAGACGGCGGCAGAACAACTCAGCTAACAGTCTTGGCTGCTGAGGCTGTTTGAATCAAACTGTTTGA  
 ATCTCCATGGCCATTTACATCTGTATACTCAAGGAGCCTGGAGTACAAGCCTACATTGGCAACCGGC  
 TCTTCTGCTTTCGCAACGAGGACGTGGACTTCTATCTGCCCCAGTTGCTTAACATGTACATCCACATGGA  
 TGAGGACGTGGGTGATGCCATTAAGCCCTACATAGTCCACCGTTGCCGCCAGAGCATTAACTTTCCCTC  
 CAGTGTGCCCTGTTGCTTGGGGCCTATTCTCAGACATGCACATTTCCACTCAACGACACTCCCCTGGGA  
 CCAAGCTACGGAAGCTGATCCTCTCAGATGAGCTAAAGCCAGCTCACAGGAAGAGGGAGCTGCCCTCCTT  
 GAGCCCGGCCCTGACACAGGGCTGTCTCCCTCCAAAAGGACTCACACAGCCTCTAAGTCAGATGCCACT  
 GCCAGCATAAGTCTCAGCAGCAACCTGAAACGAACAGCCAGCAACCCCTAAAGTGGAGAATGAGGATGAGC  
 CTGTTTCGACTGGCTCCTGAGAGAGAATTCATCAAGTCCCTGATGGCGATCGGCAAGCGGCTGGCCACGCT  
 CCCACCAAAGAGCAGAAAACACAGAGGCTGATCTCAGAGCTCTCCCTGCTCAACCATAAGCTCCCTGCC  
 CGAGTGGCTGCCACTGTGGCTTTGACCACCAGTGGTCCGTGTACCCACACACAGGCTTTGTGTC  
 TCAACTCCAAGGACAAGGCTCCCTACCTGATTTATGTGGAAGTCCCTGAATGTGAAAACCTTTGACACCAC  
 CAGTGTCCCTGCCCGGATCCCCGAGAACCAGAAATTCGGAGTACGAGGTCCGTAGAAAACCTTGCCCGAATGT  
 GGTATTACCCATGAGCAGCGAGCTGGCAGCTTACGACTGTGCCAACTATGACAACGATGATGAGGCT  
 GGTCCGGTGGATGACATAGGCGAGCTGCAAGTGGAGCTCCCCGAAGTGCATACCAACAGCTGTGACAACAT  
 CTCCCAGTTCTCTGTGGACAGCATCACAGCCAGGAGAGCAAGGAGCCTGTGTTCAATGCAGCAGGGGAC  
 ATCCGCCGGCGCCTTTCGGAACAGCTGGCTCATACCCCGACAGCCTTCAAACGAGACCCAGAAGATCCTT  
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 TCTCCCAATTGGCGGCTCCTGTGAGTCAATTTGGGAACAGGAGCGAGTGCCCTTTGGATCAAGCCATACA  
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 GAAGAAACAGTCACAGCTCTCCTTGCTCGATTACTTCTACAGGAGCACGGCAGTTACACCACTGAGGCA  
 TTCTCAGTGCACAGCGCAATTTGTGCAAAGTTGTGCTGGTACTGCTTGGTCTGCTACCTGCTGCAAG  
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 CCGCTCGGAAACACATGGACAAGGTGGTGCAGATCGTGGAGATCATGCAGCAAGGTTCTCAGCTTCTTGT  
 CTTCCATGGCTCCAGCACCATTGAAACCTCAAAGAGAGGTTCCACATGAGCATGACTGAGGAGCAGCTG  
 CAGCTGCTGGTGGAGCAGATGGTGGATGGCAGTATGCGGTCTATCACCAACAACTCTATGACGGCTTCC  
 AGTACCTCACCAACGGCATCATG

**ACGCGT**ACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234900 representing NM\_001198774  
 Red=Cloning site Green=Tags(s)

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MGDTVVEPAPLKPTSEPTSGPPGNNGSLLSVITEGVGELSVIDPEVAQKACQEVLEKVKLLHGGVAVSS
RGTPLELVNGDGDSEIRCLDDPPAQIREEEDEMGAAVASGTAKGARRRRQNNSAKQSWLLRLFESKLF
ISMAISYLYNSKEPGVQAYIGNRLF CFRNEDVDFYLPQLLNMYIHMDDEDVGD AIKPYIVHRCRQSINFS
L
QCALLLGAYSSDMHISTQRHSRGTCLRKLILSDELKPAHRKRELPSLSPAPDTGLSPSKRTHQRSKSDAT
ASISLSSNLKRTASNPKVENEDEPVRLAPEREFIKSLMAIGKRLATLPTKEQKTQRLISELSLLNHKLP
RVWLPTAGFDHHVVRVPHQAVVLNSKDKAPYLIYVEVLECFDFTTSPARIPENRIRSTRSVENLPEC
GITHEQRAGSFSTVPNYDNDDEAWSVDDIGELQVELPEVHTNSCDNISQFVSDSITSQESKEPVFIAAGD
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FQVLKQLQSIWEQERVPLWIKPYKILVISADSGMIEPVVNAVSIHQVKKQSQLSLLDYFLQEHGYSYTT
EA
FLSAQRNFVQSCAGYCLVCYLLQVDRHNGNILLDAEGHIIHIDFGFILSSSPRNLGFETSAFKLTTEFV
DVMGGLDGMFNYYKMLMLQGLIAARKHMDKVVQIVEIMQQGSQLPCFHGSSTIRNLKERFHMSMTEEQL
QLLVEQMVDGSMRSITTKLYDGFQYLTNGIM
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001198774

ORF Size: 2403 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\\_001198774.2](#)

**RefSeq Size:** 3934 bp

**RefSeq ORF:** 2406 bp

**Locus ID:** 5298

**UniProt ID:** [Q9UBF8](#)

**Cytogenetics:** 1q21.3

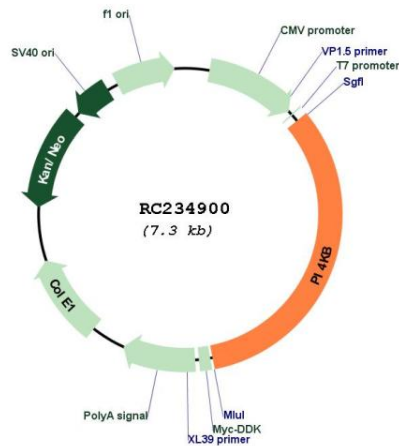
**Protein Families:** Druggable Genome

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

**MW:** 90.3 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 RC234900