

## Product datasheet for **RR206916**

### Itpkb (NM\_019312) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Itpkb (NM_019312) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itpkb
Synonyms:	IP3K B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR206916 representing NM\_019312  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGTGACTGCTATGCCCTCAATAGCCTGGTGATCATGAACAGCACCAACGAGCTGAAGAGTGGCA  
 GCCCCTGCCAGCGGCAGCGAAACGCCTCAGCCCTCCGGGAGGGCCGCGCTGAGCCCCGGCAGCGTCTT  
 CAGCCCTGGGAGAGGCGCCTCCTTTCTCTTCCCCCAGCAGAGTCGCTGTCGCTGGAGGAGCCTGGGAGT  
 GCTGGGGTTGGCGCAGCGGCCGACGGAGGCTGAATAGTAGCAGCGGTAGCGGAGGTGGCAGCAGCAGCA  
 GCAACAGCAGCAGCAGCAGTGGCGTGGCAGTCCAGTTGGGCTGGCCGCTGCGAGGGGACGCGCAGCA  
 GGTGGTGGCGACCCGCATCCTCTCCACCTGGGCCGAGGAGGCCAGAGGAAGCTGAGGATTCTGCAG  
 CGGAATTGCAAATGTGCAGGTGAACCAGAAAGTGGGCATGTTCCGAGCGCAAATCCAGGCACAGACCT  
 CTGCTATTCAAGCGCCCCGAAGCCCGCTTTGGTAGGGCTCGTTCGCCCTCCCGTGTCCCTTCCGAAG  
 CAGCAGCCAGCCTCTGAAAGGGTCTTGGCTCCATGTTCCCAAGTGAGGAACGGAGAACAAGTCTGG  
 GGAGAACAATGTACAGAGACCCAGATGCCAACTCCAGGAGGAGAAGCAGACTCAGCACACACCCCTCGA  
 AGGACAAGGAGGGAGTGGCCCTCTTTAGGCCAGCCAGCCGACCAGGTTAGGGACTCAGAGTCCATC  
 TACTTCAGTGAGAATGGAAGAGGTTCCCGGCCAGTCCCGCTGTGGCTCACCCACACCCATGGAAT  
 GACAAGAGGACTGCTCCCTCACTGGAGCACTTTGGGACTAGCTTAACGTTGGCCACTAAAGTGGCAGCTT  
 CGGCCGCATCCGCTGGACCACACCTGGACATGATTCTGTTCTCATGGAGGCAGACTGTGAGCTAGGGGC  
 CATGCGCCCTGGGAGGCCACCTGGAGAGACGGGGCAGTTTCTGGGCAGGAGACCGGCTCAGCCCCA  
 GAGCCTATCCGGACCCACATTAGAGAACCCCTGGAAGGGTGGAAAGAGTTCATTCTGTTGGTGGCCAGG  
 GCTCCTGGACACTGAAGTCATCAAAGACCAAGAGGGAAGTGGATGCCAAAGCTCAGAGCTCTC  
 AGAGAACCCGAGATGGTCTAGACTGCCTGGAGACCCGGGTTCCGTAGGGCCTGAGAAGGGAGGTAGTAGG  
 ATCCCAGGAATCCGAGGACCCAGCAGACCTGGACAGCATGAGAGAAGGGTCTTCAGCACTGGGCTTGC  
 TTGGGGCAGCCAGGCAGCACAGCCAGGGAGCATGGATGTGGAGACAGGCATTAGTTGTGCAGAATGCT  
 GGAACCTTACCACCTGGGAAGTAACAACAAATTTGAAAGAACCCAGTGCCTCCCTGGGGACAGGATG  
 GGGATGCAGCCTGAGAGTTCATAGTTTGGCCAGTGTGTGGAGGAAGCTCCCTGATCTGGACGTGTG  
 ACACAGGGATACAGTTAAAGGGGACTTGGAGAAGCAAGATGGAGATGCTCATCTAGCTGCCAAGAGAA  
 GTCCCCAGACCAGAAGGACAAGGCTGCAGCCCCAGCAACATCCCGGCCATCCCTGCAGTCATCATTACA  
 GATATGGGTGCTCAGGAGGATGGAGGTTAGAGGAGATCCAAGGAAGCCCTCGGGTCCCCTGCCTCTGA  
 GGAAGCTGTCGTCTCCTCAGCCTCCTCACTGGCTTCTCCTTCTCTATGAGGACTCGGAGGAGGACAT  
 CTCAGTGACCCTGAGCGCACTCTGGACCCCAACTCAGCCTTTTTGCATACCTTGGACCAGCAGAAGCCC  
 AGAGTGAGCAAGTCATGGAGGAAGATAAAGAACATGGTGCAGTGGTCCCCCTTTGTCATGTCTTCAAGA  
 AGAAGTACCCCTGGATCCAGCTGGCAGGACATGCAGGGAGCTTCAAGGCAGCTGCGAATGGCCGTATCCT  
 TAAGAAGCATTGTGAGTCTGAACAGCGATGCCTGGACCGGTTAATGGCGGATGTGCTGAGGCCCTTCGTG  
 CCAGCCTACCATGGCGACGTGGTGAAGGACGGGAACGCTACAACCAGATGGACGACCTGCTGGCTGACT  
 TCGATTACCCCTGCGTGATGGACTGCAAGATGGGCATCAGGACATACCTGGAGGAAGAACTCACCAAGGC  
 CCGGAAGAAGCCTAGCTTGGGAAGGACATGTACCAGAAGATGGTGGAGGTGGACCTGAGGCCCCCACT  
 GAAGAGGAGAAAAGCCAGAGAGCTGTGACCAAGCCACGTTATATGCAAGTGGCGGGAAACCATCAGTTCCA  
 CAGCTACCTTAGGCTTACAGGATCGAGGGCATCAAGAAGGAAGATGGCTCTGTGAACCGTGACTTCAAGAA  
 GACCAAAAAGGGAGCAGGTCAGTGGCCCTTACAGAAATCACTAAAGGAAACCAAGAACATCCTGATT  
 GCCTACCGGGACCGGTTGAAGGCCATTCGAGAAACCTGGAAAGTCTCTCCCTTCTCAAGTGCCATGAGG  
 TCATTGGCAGCTCTCTCTTCCATCCACGACAAGAAGGAGCAAGCAAGGTGTGGATGATTGACTTTGG  
 GAAAACACGCCCTTCCGAAGGCCAGACCCTACAACACGATGTCCCTGGCAGGAGGGGAACCGGGAG  
 GATGGCTACCTCTCAGGGCTGAACAACCTCATCGACATCCTGACAGAAATGTCCAGGGCAGCCCACTCA  
 CC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206916 representing NM\_019312  
 Red=Cloning site Green=Tags(s)

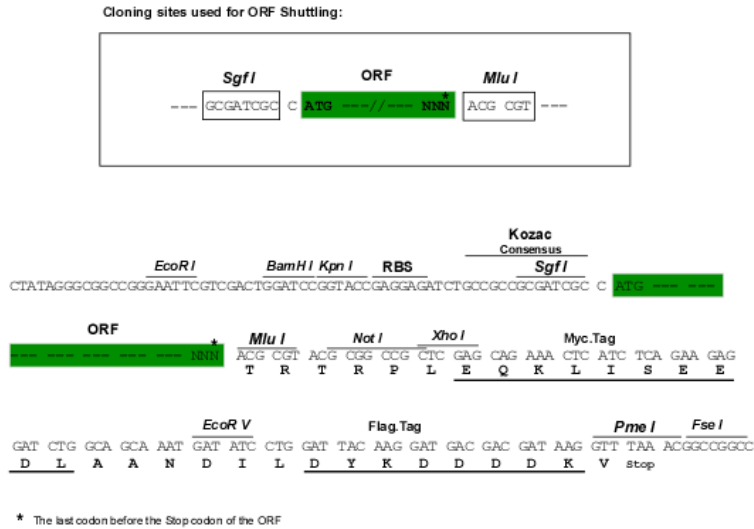
MAVYCYALNSLIVIMNSTNELKSGSPLPSGSETPQPSPGRAALSPGSVFSVSPGRGASFLFPPAESLSLEEPGS  
 AGGWRSGRRRLNSSSGSGGGSSSSNSSSSSGVGSVSWAGRLRGDAQVAVTRILSPPGPPEEAQRKLRLIQ  
 RELQNVQVQKVMFEAQIQAQTSAIQAPRSPRLGRARSPSPCFRSSSQPPERVLAPCSPSEERRTKSW  
 GEQCTETPDANSRRRRLSTHPSKDKGAVAPLLGPASPTLGTQSPSTSVRMRGSPASPRCGSPTPMEI  
 DKRTAPSLFHTSLTLATKVAASAASAGPHPGHDSVLMEADCELGAMRPWEAHLERRGQFLGRETGSAP  
 EPIRTHIREPPGRVERVHSVGGQGSWTPEVIKRPEEGTVDAQSSELSENPRWSRLPGDPGVSVPKGGSR  
 IPGIRGPQQLTDSMREGSSALGLLGGSQAAPGSMDETGI SCGRMLEPLPPGEVTTNLKEPQCLPGDRM  
 GMQPESSIVWPSAVEEAPLIWTCDTGIQLKGTWRSQDGAHPSCQEKSPDQKDKACSPSNIPAIPIVIT  
 DMGAQEDGGLLEIQGSPRGLPLRKLSSSSASSTGFSSSYEDSEEDISSDPERTLDPNSAFLHTLDQKQK  
 RVSKSWRKIKNMVQWSPFVMSFKKKYPWIQLAGHAGSFKAAANGRILKHKCESEQRCLDRLMADVLRPFV  
 PAYHGDVVKGERYNQMDLLADFDSPCVMDCKMGI RTYLEEELTKARKKPSLRKDMYQK MVEVDPEAPT  
 EEEKAQRAVTKPRYMQWRETISSTATLGFRIEIGKEDGVSNRDFKKTKTREQVTEAFREFTKGNQNILI  
 AYRDRLKAIRETLEVSPFFKCHEVIGSLLFIHDKKEQAKVMMIDFGKTTPLPEGQTLQHDVWPQEGNRE  
 DGYLSGLNLLIDILTEMSQGSPLT

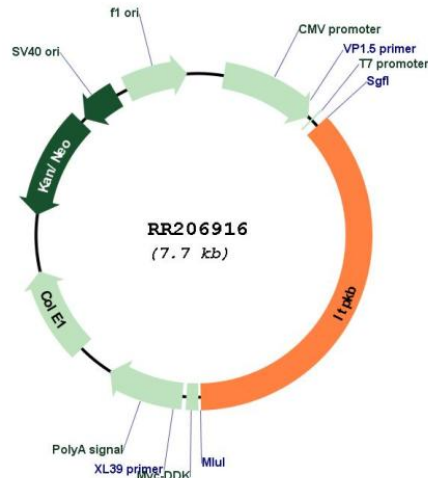
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_019312

**ORF Size:** 2802 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\\_019312.2](#), [NP\\_062185.2](#)

**RefSeq Size:** 3951 bp

**RefSeq ORF:** 2805 bp

**Locus ID:** 54260

**UniProt ID:** [P42335](#)

**Cytogenetics:** 13q26

**MW:** 101.8 kDa

**Gene Summary:** regulates inositol phosphate metabolism which is required in cell signaling [RGD, Feb 2006]