

## Product datasheet for **SC118488**

### PI4KB (NM\_002651) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PI4KB (NM_002651) Human Untagged Clone
Tag:	Tag Free
Symbol:	PI4KB
Synonyms:	NPIK; PI4K-BETA; PI4K92; PI4KBETA; PI4KIII; PI4KIIIBETA; PIK4CB
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_002651, the custom clone sequence may differ by one or more nucleotides

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ATGAGATTCTTGAAGCTCGAAGTCTGGCTGTGGCCATGGGAGATACAGTAGTGGAGCCTGCCCCCTTGA
AGCCAACCTCTGAGCCCACCTTCTGGCCACCAGGGAATAATGGGGGTCCCTGCTAAGTGCATCACGGA
GGGGTTCGGGAACTATCAGTGATTGACCTGAGGTGGCCAGAAGGCCTGCCAGGAGTGTGGAGAAA
GTCAAGCTTTTGCATGGAGGCGTGGCAGTCTCTAGCAGAGGCACCCCACTGGAGTTGGTCAATGGGGATG
GTGTGGACAGTGAGATCCGTTGCCTAGATGATCCACCTGCCAGATCAGGGAGGAGGAAGATGAGATGGG
GGCCGCTGTGGCCTCAGGCACAGCCAAAGGAGCAAGAAGACGGCGGCAGAACAACTCAGTAAACAGTCT
TGGCTGCTGAGGCTGTTTGTGACAAAAGTGTGGACATCTCCATGGCCATTTTACACCTGTATAACTCCA
AGGAGCCTGGAGTACAAGCCTACATTGGCAACCGGCTCTTCTGCTTTGCAACGAGGACGTGGACTTCTA
TCTGCCCCAGTTGCTTAACATGTACATCCACATGGATGAGGACGTGGGTGATGCCATTAAGCCCTACATA
GTCCACCCTTGGCCAGAGCATTAACTTTTCCCTCCAGTGTGCCCTGTTGCTTGGGGCCTATTCTTCAG
ACATGCACATTTCCACTCAACGACACTCCCGTGGGACCAAGCTACGGAAGCTGATCCTCTCAGATGAGCT
AAAGCCAGCTCACAGGAAGAGGGAGCTGCCCTCCTTGAGCCCGGCCCTGACACAGGGCTGTCTCCCTCC
AAAAGGACTCACAGCGCTCTAAGTCAGATGCCACTGCCAGCATAAGTCTCAGCAGCAACCTGAAACGAA
CAGCCAGCAACCCATAAGTGGAGAATGAGGATGAGGAGCTCTCCTCCAGCACCGAGAGTATTGATAATTC
ATTCAGTTCCCTGTTTGGACTGGCTCCTGAGAGAGAATTCATCAAGTCCCTGATGGCGATCGGCAAGCGG
CTGGCCACGCTCCCCACAAAGAGCAGAAAACACAGAGGCTGATCTCAGAGCTCTCCCTGCTCAACCATA
AGCTCCCTGCCGAGTCTGGCTGCCACTGCTGGCTTTGACCACCAGTGGTCCGTGTACCCACACACA
GGCTGTTGCTCAACTCAAGGACAAGGCTCCCTACCTGATTTATGTGGAAGTCTTGAATGTGAAAAC
TTTGACACCACCAGTGTCCCTGCCCGGATCCCCGAGAACCGAATTCGGAGTACGAGTCCGTAGAAAAC
TGCCCCGAATGTGGTATTACCCATGAGCAGCGAGCTGGCAGCTTCAGCACTGTGCCAACTATGACAACGA
TGATGAGGCTGGTGGTGGATGACATAGGCGAGCTGCAAGTGGAGCTCCCCGAAGTGCATACCAACAGC
TGTGACAACATCTCCAGTTCTCTGTGGACAGCATCACAGCCAGGAGAGCAAGGAGCCTGTGTTTATTG
CAGCAGGGGACATCCGCCGGCGCCTTTGGAACAGCTGGCTCATACCCCGACAGCCTTCAAACGAGACCC
AGAAGATCCTTCTGCAGTTGCTCTCAAAGAGCCCTGGCAGGAGAAAGTACGGCGGATCAGAGAGGGCTCC
CCCTACGGCCATCTCCCAATTGGCGGCTCCTGTGAGTATTGTCAAGTGTGGGGATGACCTTCGGCAAG
AGCTTCTGGCCTTTCAGGTGTTGAAGCAACTGCAGTCCATTTGGGAACAGGAGCGAGTCCCCTTTGGAT
CAAGCCATACAAGATTCTTGATTTTCGGCTGATAGTGGCATGATTGAACAGTGGTCAATGCTGTGTCC
ATCCATCAGGTGAAGAAACAGTCACAGCTCCTTGTCTGATTACTTCTACAGGAGCACGGCAGTTACA
CCTAGGCACTTCTCAGTGCACAGCGCAATTTTGTGCAAAGTTGTGCTGGGTACTGCTTGGTCTGCTA
CCTGCTGCAAGTCAAGGACAGACACAATGGGAATATCCTTTTGGACGAGAAAGGCCACATCATCCACATC
GACTTTGGCTTCTCCTCCAGCTCACCCGAAATCTGGGCTTTGAGACGTGAGCCTTTAAGCTGACCA
CAGAGTTTGTGGATGTGATGGGCGGCTGGATGGCGACATGTTCAACTACTATAAGATGCTGATGCTGCA
AGGGCTGATTGCCGCTCGGAAACACATGGACAAGTGGTGCAGATCGTGGAGATCATGCAGCAAGTTCT
CAGCTTCTTGTCCATGGCTCCAGCACCATTCGAAACCTCAAAGAGAGGTTCCACATGAGCATGACTG
AGGAGCAGCTGCAGCTGCTGGTGGAGCAGATGGTGGATGGCAGTATGCGGTCTATCACCACAAACTCTA
TGACGGCTTCCAGTACCTACCAACGGCATCATGTGA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002651 unedited  
 NGGGGGTCAAATTTGTACACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGATTTT  
 ATTTTATTTTATTTTGGTCTTGGTTGTAAGGAGGGAAGAAGAGGTTGTGTG  
 GCCCGGTGCAACTTGTGGCAGCCTGAAGCCCCCTCAGGCGGCCGCGGGCAGCCCCGC  
 AGCCGGGGCTGGTGCAGCCTCCGCGCCGCTGTAGGGAAGCGCAGGCGGCAATGGAA  
 CCCGGGAGCGGTGCTGCTGCTGAGGCGGCAGTGTGCGCAGTCCAACCGGACTGCCCGC  
 ACCCCCTCCGCGGGGGTCCCCAGAGGATCAACTAAACCTTGAAGTAAAGAAAAATGT  
 GTTGTGAGCAGGGGAGCCTCAGCTGCCTCAGGCGTTTACAGACAGAAGGGTGTCTGA  
 AGCCGGAGCAAGTTTTGAAGAAGTCCCTATCAGATTACACTTGGTTGACTACTCCGGAG  
 CAGCCACTAAGAGGGATGAACAGGCCTGCGTGGAAATTGAATGAGATTCTTGAAGCTCG  
 AAGTCTGGCTGTGGCCATGGGAGATACAGTAGTGGAGCCTGCCCCCTTGAAGCCAACTTC  
 TGAGCCCACTTCTGGCCACCAGGAATAATGGGGGTCCCTGCTAAGTGTATCACGGA  
 GGGGGTCCGNGAACTATCAGTATTGACCCTTGTAGTGGCCAGAAGCCTGCCAGGAGGTG  
 TTGGAGAAAGTCAAGCTTTTGCATGGAGGCGTGGCAGTCTTAGCAGAGGCACCCACTGG  
 GAGTTGTATGGGGATGGTGTGGACCGTANTATCCGTGCCTANATGATCCACCTGCC  
 AATCAGGGAGGGAATAGATTAGGCGGCCGTTTTGCCCTAGGCCACTCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002651 unedited  
 TAGAGGCATTTTTCAACAAAATTAATAAAAAATTTANAGCTCTTTNNTCCCTGGT  
 TTGGGNGAAGGGGAGTCAAGGTAGGGGAATTCACATGGCTAGGCCAGTACCCTCAGTAC  
 ACTGGAGGGCTGTGGGAATTCCTTCCCTGCCCATGATGGGGAACCTCAGCAAGTGCAGG  
 GCCCAGCAGCGCCGCCAGCAAGGGGAGCTTGGGCCAGGGGTGGTCCCTGGGAGGGT  
 AGGTCCCTGGGAGGGGTAGAGCTGGGCAGCAGCATGGCCAGTGGCCAACACAGGATCAA  
 GTCCCTAAGTACCGAGAACCTACTCTTCCCACTTCTGGGCCCCAGAACGGAATAAGAGG  
 ATGGCCTGTGGAAAGAACCTCTGAGAGACCCTACAAGGAGAAGAAAGGCCCCAGTGTCC  
 CTCACATTTGTCACCTCTGTTTTCTGGAGGGCAGCGAGTCTGGAGTCACTGTGGTGA  
 AACTGACACAGACCAGGAGGGGCATGGAAGCCCCAACAAAGTCTGGACCCACAGCTGGC  
 TCTCCACCCCTTAGCAAGCTCTCGCAGTACCACATGATCCTTCGTGCCTCTTGCCTC  
 CATTTCCCTTGGGCGGATGGCTGGCGCAGGGGGCCTCCTGGCTTCGGCGCTCCCAGAAA  
 AGGCCCTCTTAGGAAGGTGCCCTGCACCCCCCATTCTGGGACTGCCACTGCGTCCACT  
 TATCCTCCTCGTGACCCCTCCACCCCCACCCTTCGCGTTTTACACCCCTCCTCCCTTC  
 CCTTTTCTCCCTTACTCTCCCTCCCTCAACCTCCCATGATCCACATCTCCGTTCC  
 CAAACCGTCTGCTTCTCCTCTCCACCCATAATCTTCTCAAAAAACTGCCTACCTCCCT  
 CTCCCTTCTCTCTCCATCCACCCCCACCNTTACCTTCTTCCCTCTCTCCCTCT  
 TTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002651

**Insert Size:**

3780 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_002651.1](#), [NP\\_002642.1](#)

**RefSeq Size:** 3471 bp

**RefSeq ORF:** 2487 bp

**Locus ID:** 5298

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

**Cytogenetics:** 1q21.3

**Domains:** PI3\_PI4\_kinase

**Protein Families:** Druggable Genome

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

**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]  
 Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.