

# **Product datasheet for RC216570L2**

#### OriGene Technologies, Inc.

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## PI4KB (NM\_002651) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** PI4KB (NM\_002651) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: PI4KB

Synonyms: NPIK; PI4K-BETA; PI4K92; PI4KBETA; PI4KIII; PI4KIIIBETA; PIK4CB

Mammalian Cell None

Selection:

**Vector:** pLenti-C-mGFP (PS100071)

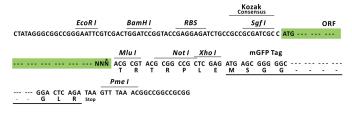
**E. coli Selection:** Chloramphenicol (34 ug/mL)

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 



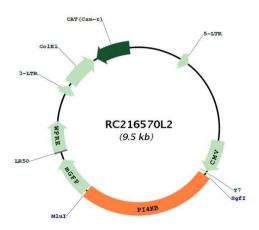


<sup>\*</sup> The last codon before the Stop codon of the ORF.





#### Plasmid Map:



**ACCN:** NM\_002651 **ORF Size:** 2484 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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <u>More info</u>

**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).



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**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:** <u>NM 002651.1</u>

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

**MW:** 92.5 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]