

Product datasheet for **MC216317**

Pi4k2b (NM_025951) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pi4k2b (NM_025951) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pi4k2b
Synonyms:	2610042N09Rik; 4933409G22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216317 representing NM_025951
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGGCTGCGAGCCACCCGCCCTCGGAGGACGAGGACGAGGAGCGGGAGCCGCTGCTGCCTC
 GCGTTGCCTGGGCCAGCCGCGGAGGGTCGCGCCGGGAGCGCCGTGAGAATGCAGGCGGACGAGGGCGC
 GGATGTCTCCGCGAGCCGCTACCGACGAGCCCGCGGGTGTCCGGGAAGGGTCGATCTCCGCGAGC
 TTGTCCACCGAGCTGGATCGGACCCGCACTACGAGCTCAGAAACAAATACATTCTTGAAGATCCAGAAT
 TTGCTGATATTGTATTGAAAGCAGAGCAAGCAATAGAAATTGGAGTTTCCAGAAAGAATTTCTCAAGG
 GTCAAGTGAAGTTACTTTGTAAGGATTCTAAAAGGAATATTATTGGCGTGTAAACCCAAATCAGAA
 GAGCCTTATGGCCAGCTGAACCCCAAGTGGACCAAGTACGTCCATAAGGTTTGTGTCCCTGCTGCTTTG
 GCCGAGGCTGCCTGCTTCTAACCAGGGGTACCTTTCTGAAGCTGGTGCCTACCTGGTGGATGTCAAAT
 TAATCTGGGTATTGTGCCTAAAACAAAGGTGGTTTGGCTTGTGAGTGCATTTAACTACAGTGAATT
 GACCGTGCAAAATCAAGAGGCAAAAAGTATGCCTTAGAGAAAGTGCCAAAAGTAGGCAGAAAGTTCCATC
 GGATAGGACTTCCTCCTAAGGTTGGTTCCTTTCAGCTGTTTGTGAAGATTACAAGGAGGCTGAGTATTG
 GCTTAGGAGGTTTGAAGCGGAGCCTCTGCCCGAGAACATTAGAAAACAGTTTCAGTCACAGTTTGAAAAA
 TTAGTGATTCTGGATTACATCATCAGGAACACAGACAGGGGAAATGATAACTGGCTAGTCAAATATGATG
 AGATGAAGTATGCAAGAAAAATTGAAAGTGAGGAATCAAAGTGGATTGATAATAACAATTGCTTATTA
 AATAGCTGCAATTGATAATGGGCTAGCATTCCCTTTAAGCATCTGTGATGAGGCGAGCATATCCATTT
 CACTGGGCTTGGCTTCTCAAGCAAAGGTTCTTTTCTGAAGAGACTCGAACTTGATTCTACCTATA
 TTTCTGACATGAACCTTTGTACAAGACTTGTGTGAAGATCTTTATGAACCTTTTAAGACTGACAAAGGATT
 TGACAGAGCTGCTTTTGAAATCAGATGTCTGTGATGAGAGGCCAGATCTTAAACCTCACTCAGGCACTG
 AGAGACGGGAAGAGTCTATGCAGCTGGCACAGATGCCATGTGTGATCGTGGAGTGCAGCAAAAGTGGCA
 GCCAGGGCCGTGTGTACACCTGGGCGAGCTCCTTACCCAGACGGTCCACTGCAGGAAACCGTTCTCTC
 CTCCTGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_025951
- Insert Size:** 1410 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_025951.3</u> , <u>NP_080227.2</u>
RefSeq Size:	3143 bp
RefSeq ORF:	1410 bp
Locus ID:	67073
UniProt ID:	<u>Q8CBQ5</u>
Cytogenetics:	5 C1
Gene Summary:	Together with PI4K2A and the type III PI4Ks (PIK4CA and PIK4CB) it contributes to the overall PI4-kinase activity of the cell. This contribution may be especially significant in plasma membrane, endosomal and Golgi compartments. The phosphorylation of phosphatidylinositol (PI) to PI4P is the first committed step in the generation of phosphatidylinositol 4,5-bisphosphate (PIP2), a precursor of the second messenger inositol 1,4,5-trisphosphate (InsP3). Contributes to the production of InsP3 in stimulated cells and is likely to be involved in the regulation of vesicular trafficking (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).