

Product datasheet for **MC215998**

Pi4k2b (NM_028744) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pi4k2b (NM_028744) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pi4k2b
Synonyms:	2610042N09Rik; 4933409G22Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215998 representing NM_028744
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGGCCCTGCGAGCCACCCGCCCTCGGAGGACGAGGACGAGGAGCGGGAGCCGCTGCTGCCTC
 GCGTTGCCTGGGCCAGCCGCGGAGGGTCGCGCCCGGGAGCGCCGTGAGAATGCAGGCGGACGAGGGCGC
 GGATGTCTCCGCGAGCCGCTACCGACGAGCCCGCGCGGTGTCCGGGAAGGGTCGATCTCCGCGAGC
 TTGTCCACCGAGCTGGATCGGACCCGACTACGAGCTCAGGTCCTGAACTTTGTCCGTTTTACTCTAGGA
 GTCTGTGTTACAAAACAATACTGCTTTGGGTATTATAATATTATTGGCGTGTAAACCCAAATCAGA
 AGAGCCTTATGGCCAGCTGAACCCCAAGTGGACCAAGTACGTCCATAAGGTTTGTGTCCCTGCTGCTTT
 GGCGGAGGCTGCCTGCTCCTAACCGGGTACCTTTCTGAAGCTGGTGCCTACCTGGTGGATGTCAAAC
 TTAATCTGGGTATTGTGCCTAAAACAAGGTGGTTTGGCTTGTGAGTGCCTACCTGGTGGATGTCAAAC
 TGACCGTCAAAAATCAAGAGGCAAAAAGTATGCCTTAGAGAAAGTGCCAAAAGTAGGCAGAAAGTCCAT
 CGGATAGGACTTCTCCTAAGGTTGGTTCTTTACGCTGTTTGTGAAAGATTACAAGGAGGCTGAGTATT
 GGCTTAGGAGGTTTGAAGCGGAGCCTCTGCCCGAGAACATTAGAAAACAGTTTCAGTCACAGTTTAAAA
 ATTAGTGATTCTGGATTACATCATCAGGAACACAGACAGGGGAAATGATAACTGGCTAGTCAAATATGAT
 GAGATGAAGTATGCAAAGAAAATGAAAGTGAAGGAAATCAAAGTGGATTGATAATAAAACAATTGCTTATTA
 AAATAGCTGCAATTGATAATGGCTAGCATTCCCTTTAAGCATCCTGATGAATGGCGAGCATATCCATT
 TCACTGGGCTTGGCTTCTCAAGCAAAGGTTCTTTTTCTGAAGAGACTCGAACTTGATTCTACCTAT
 ATTTCTGACATGAACTTTGTACAAGACTTGTGTGAAGTCTTTATGAACTTTTAAAGACTGACAAAGGAT
 TTGACAGAGCTGCTTTTAAAAATCAGATGTCTGTGATGAGAGGCCAGATCTTAAACCTCACTCAGGCAT
 GAGAGACGGGAAGAGTCTATGCAGCTGGCACAGATGCCATGTGTGATCGTGGAGTGCAGCAAAAAGTGGC
 AGCCAGGGCCGTGTGGTACACCTGGGCAGCTCCTTACCCAGACGGTCCACTGCAGGAAACCGTTCTTCT
 CCTCTGGT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028744

Insert Size: 1341 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.

RefSeq: [NM_028744.3](#), [NP_083020.2](#)

RefSeq Size: 3074 bp

RefSeq ORF: 1341 bp

Locus ID: 67073

UniProt ID: [Q8CBQ5](#)

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 (2) contains an alternate exon and lacks a different alternate exon in the 5' coding region, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.