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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGGCCTGCGAGCCCACCCGCCCCTCGGAGGACGAGGACGAGGAGCGGGAGCCGCTGCTGCCTC
GCGTTGCCTGGGCCCAGCCGCGGAGGGTCGCGCCCGGGAGCGCCGTGAGAATGCAGGCGGACGAGGGCGC
GGATGTCCTCCGCGAGCCCGCTACCGACGAGCCGCCGGCGGTGTCCGGGGAAGGGTCGATCTCCGCGAGC
TTGTCCACCGAGCTGGATCGGACCCGCACTACGAGCTCAGGTCCTGAACTTTGTCCGTTTTACTCTAGGA
GTCTGTGTTACAAAACAACTACTGCTTTGGGGTATTATAATATTATTGGCGTGTTTAAACCCAAATCAGA
AGAGCCTTATGGCCAGCTGAACCCCAAGTGGACCAAGTACGTCCATAAGGTTTGCTGTCCCTGCTGCTTT
GGCCGAGGCTGCCTGCTTCCTAACCAGGGGTACCTTTCTGAAGCTGGTGCCTACCTGGTGGATGTCAAAC
TTAATCTGGGTATTGTGCCTAAAACAAAGGTGGTTTGGCTTGTCAGTGAGACATTTAACTACAGTGCAAT
TGACCGTGCAAAATCAAGAGGCAAAAAGTATGCCTTAGAGAAAGTGCCAAAAGTAGGCAGAAAGTTCCAT
CGGATAGGACTTCCTCCTAAGGTTGGTTCCTTTCAGCTGTTTGTGAAAGATTACAAGGAGGCTGAGTATT
GGCTTAGGAGGTTTGAAGCGGAGCCTCTGCCCGAGAACATTAGAAAACAGTTTCAGTCACAGTTTGAAAA
ATTAGTGATTCTGGATTACATCATCAGGAACACAGACAGGGGAAATGATAACTGGCTAGTCAAATATGAT
GAGATGAAGTATGCAAAGAAAATTGAAAGTGAGGAATCAAACTGGATTGATAATAAACAATTGCTTATTA
AAATAGCTGCAATTGATAATGGGCTAGCATTTCCCTTTAAGCATCCTGATGAATGGCGAGCATATCCATT
TCACTGGGCTTGGCTTCCTCAAGCAAAGGTTCCTTTTTCTGAAGAGACTCGAAACTTGATTCTACCCTAT
ATTTCTGACATGAACTTTGTACAAGACTTGTGTGAAGATCTTTATGAACTTTTTAAGACTGACAAAGGAT
TTGACAGAGCTGCTTTTGAAAATCAGATGTCTGTGATGAGAGGCCAGATCTTAAACCTCACTCAGGCACT
GAGAGACGGGAAGAGTCCTATGCAGCTGGCACAGATGCCATGTGTGATCGTGGAGTGCAGCAAAAGTGGC
AGCCAGGGCCGTGTGGTACACCTGGGCAGCTCCTTCACCCAGACGGTCCACTGCAGGAAACCGTTCTTCT
CCTCCTGGTAG

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.

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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.

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