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Product datasheet for MC206278

Pi4k2a (BC022127) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pi4k2a (BC022127) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pi4k2a
Synonyms:	MGC37783, Pi4k2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for BC022127, the custom clone sequence may differ by one or more nucleotides

CCCACGCGTCCGCGGACGCGTGGGCCGGCGGCCTGAGGGATGGACGAGACGAGCCCGCTAGTGTCCCCCG
AGCGGGCCCAACCCCCGGAGTACACCTTCCCGTCGGGCTCCGGAGCTCACTTTCCGCAAGTACCGGGGGG
CGCGGTCCGCGTGGCGGCGGCGGCCGGCTCCGGCCCGTCACCGCCGTGCTCGCCCGGCCACGACCGGGAG
CGGCAGCCCCTGCTGGACCGGGCCCGGGGCGCGGCGGCGCAGGGCCAGACCCACACGGTGGCGGTGCAGG
CCCAGGCCCTGGCCGCCCAGGCGGCCGTGGCGGCGCACGCCGTTCAGACCCACCGCGAGCGGAACGACTT
CCCGGAGGACCCCGAGTTCGAGGTGGTGGTGCGGCAGGCCGAGGTTGCCATCGAGTGCAGCATCTATCCC
GAGCGCATCTACCAGGGCTCCAGTGGAAGCTACTTCGTCAAGGACTCTCAGGGGAGAATCGTTGCTGTCT
TCAAACCCAAGAATGAAGAGCCATATGGGCACCTTAACCCTAAGTGGACCAAGTGGCTGCAGAAGCTATG
CTGCCCCTGCTGCTTCGGCCGAGACTGCCTTGTTCTCAACCAGGGCTATCTCTCAGAGGCAGGGGCTAGC
CTGGTGGACCAAAAACTGGAACTCAACATTGTACCACGTACAAAGGTAGTATACCTGGCCAGTGAAACCT
TCAACTACAGTGCCATTGACCGAGTAAAGTCCAGGGGCAAGCGGCTTGCACTAGAGAAAGTGCCAAAAGT
TGGGCAGCGGTTTAACCGAATCGGCCTGCCACCAAAGGTCGGGTCATTCCAGCTTTTCGTTGAAGGCTAC
AAAGATGCAGACTATTGGCTGCGGCGTTTTGAAGCAGAACCTCTCCCTGAGAACACGAACCGACAGCTGC
TATTGCAGTTTGAGCGGTTGGTGGTCCTGGACTACATCATCCGCAACACTGACCGAGGCAATGACAACTG
GTTGATCAAATATGACTGTCCGATGGATAATTCTAGCTGTCGGGACACAGATTGGGTGATGGTGAGGGAG
CCTGTTATCAAGGTGGCTGCCATAGACAACGGGCTAGCTTTCCCACTGAAGCATCCTGACTCCTGGAGGG
CATATCCTTTTTACTGGGCCTGGCTGCCTCAGGCGAAAGTCCCGTTCTCTCAGGAGATCAAAGATTTGAT
TCTTCCAAAGATTTCAGACCCTAACTTCATCAAGGACTTGGAGGAGGACCTATATGAACTCTTCAAGAGA
GATCCTGGCTTCGACAGGGGCCAGTTCCATAAGCAGATTGCTGTCATGAGAGGCCAGATCCTAAATTTGA
CCCAGGCCCTGAAAGACAATAAGAGCCCCCTGCACCTCGTCCAGATGCCACCTGTGATTGTCGAGACGGC
CCGCTCTCATCAGCGGTCTGCAAGCGAATCCTACACACAGAGCTTTCAGAGTCGGAAGCCCTTCTTTTCA
TGGTGGTAGCCCCAGAGGCAGGCAGAAGAAATCCTGCAGGAGCCAGCAGGGGTCCAGGTGTGTGCCGGTC
TTCACAGATGTTTCCACACCAGCCGGGTGGCGAGACTTCCCCCTGGAGTGCTGGAGAGAACTTAGTCCTG
CCCCAGACCAGGTTTGCCATCAGGAAGAAATTGGGTCCAATGGAAGAGGGGGCCGGTGCCAGGCCCAGTG
GGCAAGGGTGCAGGCAGCCTTACCTGCCTCCCTCCCTCGAAGCTTGTACTCAAGTTGCCTTGAATGTGGA
CTTGGGAGTGCCAGGAGCCCAGAGTGTCAGGTACTTCAGAACAGCCGCCCCTCTGCCAGCCTTAGGCCTG
TCCCCTGTGTCTAGGAGCTGAAGCTGGCTGGTGAGCGCTGCTGCCCTGTTCTTCTAATGCACTGTAGAAA
TTGTATGTATTGTATTTAAATCAATGCAAATGTATGAATAACAAATCCAGTTCTGAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI

ACCN: BC022127

Insert Size: 1482 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:	BC022127
RefSeq Size:	1960 bp
RefSeq ORF:	1482 bp
Locus ID:	84095
Cytogenetics:	19 35.74 cM
Gene Summary:	Membrane-bound phosphatidylinositol-4 kinase (PI4-kinase) that catalyzes the phosphorylation of phosphatidylinositol (PI) to phosphatidylinositol 4-phosphate (PI4P), a lipid that plays important roles in endocytosis, Golgi function, protein sorting and membrane trafficking and is required for prolonged survival of neurons. Besides, phosphorylation of phosphatidylinositol (PI) to phosphatidylinositol 4-phosphate (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).[UniProtKB/Swiss-Prot Function]