

Product datasheet for **MC218509**

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



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Fully Sequenced ORF: >BC022127
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAGACGAGCCCGTAGTGTCCCCGAGCGGGCCAAACCCCGGAGTACACCTTCCCGTCGGGCT
 CCGGAGCTCACTTCCGCAAGTACCGGGGGCGCGGTCCGCGTGGCGGCGCGGCCGGCTCCGGCCCGTC
 ACCGCCGTGCTCGCCCGCCACGACCGGGAGCGGCAGCCCTGCTGGACCGGGCCCGGGCGCGCGGCG
 CAGGGCCAGACCCACACGGTGGCGGTGCAGGCCAGGCCCTGGCCGCCAGGCGGCCGTGGCGGCGCACG
 CCGTTCAGACCCACCGCAGCGGAACGACTTCCCGGAGGACCCCGAGTTCGAGGTGGTGGTGCAGGCG
 CGAGGTTGCCATCGAGTGCAGCATCTATCCCGAGCGCATCTACCAGGGCTCCAGTGAAGCTACTTCGTC
 AAGGACTCTCAGGGGAGAATCGTTGCTGTCTTCAAACCAAGAATGAAGAGCCATATGGGCACCTTAACC
 CTAAGTGGACCAAGTGGTGCAGAAGCTATGCTGCCCTGCTGCTTCGGCCGAGACTGCCTTGTCTCAA
 CCAGGGCTATCTCTCAGAGGCAGGGGCTAGCCTGGTGGACAAAACTGGAACCTAACATTGTACCAGT
 ACAAAGGTAGTATACCTGGCCAGTGAAACCTTCAACTACAGTGCCATTGACCGAGTAAAGTCCAGGGGCA
 AGCGGCTTGCACTAGAGAAAGTGCCAAAAGTTGGGCAGCGGTTTAAACGAATCGGCCTGCCACAAAGGT
 CGGGTCATTCCAGCTTTTCGTTGAAGGCTACAAAGATGCAGACTATTGGCTGCGGCGTTTGAAGCAGAA
 CCTCTCCCTGAGAACACGAACCGACAGCTGCTATTGCAGTTTGAGCGGTTGGTGGTCTGGACTACATCA
 TCCGCAACACTGACCGAGGCAATGACAACCTGGTTGATCAAATATGACTGTCCGATGGATAATTCTAGCTG
 TCGGGACACAGATTGGGTGATGGTGAGGGAGCCTGTTATCAAGGTGGCTGCCATAGACAACGGGCTAGCT
 TTCCCACTGAAGCATCTGACTCCTGGAGGCATATCCTTTTTACTGGCCTGGCTGCCTCAGCGGAAAG
 TCCCGTTCTCTCAGGAGATCAAAGATTTGATTCTTCAAAGATTCAGACCCTAAGCTTCAAGGACTT
 GGAGGAGACCTATATGAACTTCAAGAGAGATCCTGGCTTCGACAGGGGCCAGTTCATTAAGCAGATT
 GCTGTCTGAGAGGCCAGATCCTAAATTTGACCCAGGCCCTGAAAGACAATAAGAGCCCCCTGCACCTCG
 TCCAGATGCCACCTGTGATTGTGCGAGACGGCCGCTCTCATCAGCGGTCTGCAAGCGAATCCTACACACA
 GAGCTTTCAGAGTCGGAAGCCCTCTTTTCATGGTGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

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: 1439 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]