

## Product datasheet for MC209168

### Pip4k2a (NM\_008845) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pip4k2a (NM\_008845) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pip4k2a  
**Synonyms:** AW742916; Pip5k2a  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209168 representing NM\_008845  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGACCCCTGGCAACCTGGGGTCTCCGTCTGGCGAGCAAGACCAAGACGAAGAAGAAGCACTTCG  
 TGGCTCAGAAAGTGAAGCTGTTCCGGGCCAGCGACCCGCTGCTCAGCGTGCTCATGTGGGGGTCAACCA  
 TTCGATCAATGAACTGAGCCACGTTCAAATCCCTGTCATGTTGATGCCTGATGACTTCAAAGCCTACTCA  
 AAGATAAAGTTGACAACCACCTTTTTAAACAAGGAAAACATGCCGAGCCATTTCAAGTTTAAAGAACTACT  
 GCCCAATGGTCTTCCGGAATCTGCGGGAGAGGTTTGAATCGACGACCAAGATTTCCAGAATTCCTTGAC  
 CAGAAGTGCACCCCTTCCAATGACTCCCAGGCTCGCAGCGGGGCTCGGTTTACACAGTCTTATGATAAA  
 AGATACGTCATCAAGACCATTACCAGTGAGGACGTGGCAGAGATGCACAACATCCTGAAGAAGTACCACC  
 AGTATATAGTGAATGTCATGGGGTCACTTCTTCTCAGTTCTTGGGAATGTACCGGCTTAATGTCGA  
 TGGAGTGGAAATATATGTGATTGTTACAAGGAATGTGTTAGCCACCGGCTATCTGTATATAGGAAATAC  
 GACTTAAAGGGCTCGACAGTGGCTAGAGAAGCTAGTGATAAAGAAAAGGCCAAAGAGCTGCCAATTTAA  
 AGGATAATGACTTCATCAATGAGGGCCAAAAGATCTATATTGATGACAACAACAAAAGATATTCCTAGA  
 AAAACTGAAAAAGGATGTCGAGTTCCTTGACAGTTAAACTCATGGACTACAGCCTCCTGGTGGGGATT  
 CACGATGTGGAGCGAGCAGAGCAGGAGGAGGTGGAGTGTGAGGAGAACGATGGGGAAGAAGAAGGAGAGA  
 GTGACAGCACCCACCGATCGGGACGCCACCAGACAGTCCCGAAATACACTCAACAGCTCACCACCTT  
 GGCTCCTGGAGAGTTTGTCCAAACATTGATGTTTATGCAATTAATGCCATGAGAATGCGCCTAGAAAA  
 GAGGTATACTTTCATGGCGATTATTGACATCCTTACTCATTACGATGCAAAAAAGAAAGCTGCCACGCTG  
 CAAAACTGTTAAACATGGCGCTGGAGCTGAGATCTCGACTGTGAACCCAGAGCAGTATTCCAAGCGCTT  
 TTTGGACTTTATTGGGCACATCTT**GTA**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_008845
<b>Insert Size:</b>	1218 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008845.4</a> , <a href="#">NP_032871.3</a>
<b>RefSeq Size:</b>	3471 bp
<b>RefSeq ORF:</b>	1218 bp
<b>Locus ID:</b>	18718
<b>UniProt ID:</b>	<a href="#">O70172</a>
<b>Cytogenetics:</b>	2 A3
<b>Gene Summary:</b>	<p>Catalyzes the phosphorylation of phosphatidylinositol 5-phosphate (PtdIns5P) on the fourth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P<sub>2</sub>). May exert its function by regulating the levels of PtdIns5P, which functions in the cytosol by increasing AKT activity and in the nucleus signals through ING2. May regulate the pool of cytosolic PtdIns5P in response to the activation of tyrosine phosphorylation. May negatively regulate insulin-stimulated glucose uptake by lowering the levels of PtdIns5P (By similarity). May be involved in thrombopoiesis and the terminal maturation of megakaryocytes and regulation of their size.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>