

Product datasheet for **MC203424**

Inpp5k (NM_008916) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5k (NM_008916) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Inpp5k
Synonyms:	C62; Pps; SKIP
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC066112
TCCGAATCCGGAAGAAAAACAATCCGGAGGGAGCAGTGCTGCTGAGACCGGAGACCAAGGGCTGCTCCGG
CTCGACTAGATGCAGCACGGAGACAGGAACACACCGGGTTACCGCGAGGGAATAATGTCGGCTGTGAGT
CTAAGGAGGCCGAGCGCACCGAAAGGCTTTGCACTCAGCGTACATGTTGTGACGTGGAATGTGGCCTCCG
CAGCCCCACTGTAGACCTCAGTGACCTACTTCAACTGAACAACCAAGACCTGAATCTGGACATATATAT
CATTGGTTTGCAGGAAATGAATTTTGAATCATAAGCCTTCTTTCTGTATGCTGCTTTTGAAGACCCATGG
AGCAGTCTCTTTCATGGATATGCTTTCCCACTGAACCTTTGTCAAGATCTCTCAAGTCCGTATGCAGGGGC
TTCTCTTACTGGTCTTTGCCAAGTACCAGCATTGGCCCTACATCCAGATCATCTCTACGAAATCCACCCC
CACTGGCCTCTACGGTACTGGGGAAACAAGGGGAGTCAACGTCTGCCTGAAGCTTTATGGTACTAC
GTCAGCATCATCAATTGCCACCTGCCTCCTCATATGTATAACAATGACCAGCGCTGGAACACTTTGACC
GAATCTTGAGAGTCTGACTTTTGGGGATATGATGTCCCAACATCCTGGACCATGACCTCATTCTGTG
GTTTGGAGACATGAACCTTGAATTGAGGACTTTGGGTTGCTCTTTGTGCAGGAGAGTATAACGAGGAAG
TACTACAAAGAGCTGTGGGAGAAAGATCAGCTCTTCAATGCCAAGAAAAATGACCAGCTGCTCCGCGAGT
TCCAGGAAGCCCGCTGCTTTCCACCCACCTACAAGTTGACCGTCACTCCAACAATATGACACCAG
TGAGAAAAACGCAAGCCTGCGTGGACTGACCGCATCCTGTGGAGTTGAAGCGGAGCCGCTCCAGGCC
AGCCCCCTTGGCCTCCAGTGTACCAACCTCTACTTCTGTGACTGAAGAACTATGTCAGCCACATGG
CATAACAGCATCAGTGACCATAAGCCTGTCACTGGCACCTTTGACTTGGAGCTGAACCCACTGATGTCTGT
CCCCTGATCACTATGATGCCTGAACACCTGTGGACCATGGAGAACGACATGCTGATCAGCTACACCTCC
ACCCAGAGTTTCTCAGCAGCTCCTGGGACTGGATCGACTATAACAAGTGGGGATGCGTCACATTAATG
ACTATGTAGCCTATGTCTGGTCCGGCACAACCAAGTCTCCTATGGTAACAACCCAAACCAGGTGTATAT
CAACATCAGTGTATCCCTGACACTGAGGATCAGTTTCTCTCTGTTACTATAGCAACAACCTGCACTCT
GTAGTGGGATAAGTCAACCTTCAAGATCCCGATTGCTCCTTTTGGAGAGGACACACTGTATGAGC
CTGAGCCACAGATCTGAGCCAGATGGAAGTGAATGAATCCAGGGCGGAGGCTAGAGCTGGAAGCCAGCT
CTGCTTACAGCACTGCCAGCAGCGTGGTCTGGCCAGCCCTGAGGAGGCTCCTGACTATCCTCCAGCT
CCCCACCTCCAGAGGAGCTCAGCTAGACTCCTCTGCTCTCTCCAGGCCAGAGGAACTGGCCCTTAATA
CAGGTTTTTGTACAGAGATGTGATTGAAACAGAGTAGTGTCAATAGTGAAGACTTGGAGACGGTCCA
CTGCATATAGACTTGCTTCCACTAGCTTGCATGCCATTTCTTTTTCTCCCTTTCATCCACACATA
AACACTCCCTCTCACATTCAGCAGTCTGCCAGGCACATGCCCTATCTGGCACAGGCCTGCATTCTAT
CACACCCTCTGGCCTCAGGCTGCCTGGGAGGGGACGTTACATTTGTACAGGCCCTGTCAGTTGGGT
GGCAGAACAGCACTGGGTTCCAAATCTTGGCATCTCATGGTTTGTCCACGGGGATGAGCAGAGACT
CTGAGATCCCTGCTTTCAGCTGAAGCACTGTGACAGTAGTGAATGTCCATCTCTACTCTGGAGAGTGG
TCTGACCAGGAAGTCTAGGGCCTAAGGTTAGCTTCTGCAGGTGAGTGCAGCTGCATGTCCACCTGCC
CTTTCCTGAGAGTGGACAGGTGGAGGAGGACCATAGCCACCAACCTCTAGGGTGGTCTTTCAGATACGA
TCATGCTCATCTTCACTGGCAAAGCACTGCTCCTCCCTCTGGGCCTGCTGGACCTAGAAGTGGGAAGCA
GCAGAGGAACTAGGTGCAAGACATTTTGGAGGACCTAGCGGCAAGAAGAAGCCTCAGCACTCTCTGGGAG
CCATGTGGATATGGCCTGTCCCTGTTCCCTGCCAACAGTCACTCAGTGCCTCTTCTCCAGGAGAAGACAC
CTCAGGGAGTCTTGCCTGTAATGCTCAGTCCATCCTGTAACCTAAGAGTCACTCCAGTTGCTCCAGGG
TCTGTATTCTATCTTGGGAGCCACCGGGTGAAGAATAAGCCCCAGGCTTCTAGTGAGCTGTGGCTGT
CTGTTCTGTGTGTTGCATATTGGAGGTTAATTATAAATATGGCTTTTAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Ascl-NotI
- ACCN:** NM_008916
- Insert Size:** 1407 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: [BC066112](#), [AAH66112](#)

RefSeq Size: 2660 bp

RefSeq ORF: 1407 bp

Locus ID: 19062

UniProt ID: [Q8C5L6](#)

Cytogenetics: 11 45.92 cM

Gene Summary: Inositol 5-phosphatase which acts on inositol 1,4,5-trisphosphate, inositol 1,3,4,5-tetrakisphosphate, phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate. Has 6-fold higher affinity for phosphatidylinositol 4,5-bisphosphate than for inositol 1,4,5-trisphosphate (By similarity). Negatively regulates assembly of the actin cytoskeleton. Controls insulin-dependent glucose uptake among inositol 3,4,5-trisphosphate phosphatases; therefore, is the specific regulator for insulin signaling in skeletal muscle (PubMed:22247557, PubMed:22751929).[UniProtKB/Swiss-Prot Function]