

Product datasheet for **MR207493**

Inpp5k (NM_008916) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5k (NM_008916) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Inpp5k
Synonyms:	C62; Pps; SKIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207493 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGCACGGAGACAGGAACACACCGGGTTACCGCGAGGGAATAATGTCGGCTGTGAGTCTAAGGAGGC
 CGAGCGCACCGAAAGCCTTTCAGCTCAGCGTACATGTTGTGACGTGGAATGTGGCCTCCGACGCCCCAC
 TGTAGACCTCAGTGACCTACTTCAACTGAACAACCAAGACCTGAATCTGGACATATATATCATTGGTTTG
 CAGGAAATGAATTTTGAATCATAAGCCTTCTTTCTGATGCTGCTTTGAAGACCCATGGAGCAGTCTCT
 TCATGGATATGCTTTCCCAGTGAACCTTGTCAAGATCTCTCAAGTCCGTATGCAGGGGCTTCTCTTACT
 GGTCTTTGCCAAGTACCAGCATTGCCCTACATCCAGATCATCTACGAAATCCACCCCACTGGCCTC
 TACGGGTACTGGGGAACAAGGGGAGTCAACGTCTGCCTGAAGCTTTATGGCTACTACGTCAGCATCA
 TCAATTGCCACCTGCCTCCTCATATGTATAACAATGACCAGCGCCTGGAACACTTTGACCGAATCTTGA
 GAGTCTGACTTTTGAGGGATATGATGTCCCAACATCCTGGACCATGACCTCATTCTGTGGTTTGGAGAC
 ATGAACTTTCAATTGAGGACTTTGGGTTGCTCTTTGTGCAAGGAGATATAACGAGGAAGTACTACAAGG
 AGCTGTGGGAGAAAGATCAGCTTCTCATTGCCAAGAAAAATGACCAGCTGCTCCGCGAGTCCAGGAAGG
 CCCGCTGCTTCCCACCCACCTACAAGTTGACCGTCACTCCAACAATGACACCAAGTGAAGAAAAA
 CGCAAGCCTGCGTGGACTGACCGCATCCTGTGGAGGTTGAAGCGGCAGCCGTCACAGCCAGCCCTTGG
 CCTCCAGTGTACCAACCTCCTACTTCTTGTGACTGAAGAATATGTCAGCCACATGGCATACAGCAT
 CAGTGACCATAAGCCTGTCACTGGACCTTTGACTTGGAGCTGAACCACTGATGCTGTCCCACTGATC
 ACTATGATGCCTGAACACCTGTGGACCATGGAGAACGACATGCTGATCAGCTACACCTCCACCCAGAGT
 TCCTCAGCAGCTCCTGGACTGGATCGGACTATACAAGGTGGGATGCGTCACATTAATGACTATGTAGC
 CTATGTCTGGGTGCGCGACAACCAAGTCTCCTATGGTAACAACCCAAACCAAGGTGATATCAACATCAGT
 GCTATCCCTGACTGAGGATCAGTTTCTTCTCTGTTACTATAGCAACAACCTGCACTCTGTAGTGGGGA
 TAAGTCAACCCTCAAGATCCCGATTGCTCCTTTTTGAGAGAGGACACACTGTATGAGCCTGAGCCACA
 GATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207493 protein sequence
 Red=Cloning site Green=Tags(s)

MQHGDRNTPGYREGIMSAVSLRRPSAPKGFALSVHVVTWNVASAAPTVDLSDLLQLNNQDLNLDIYIIGL
 QEMNFGIISLLSDAAFEDPWSSLFMDMLSPNFKISQVRMQGLLLL VFAKYQHLPYIQUIISTKSTPTGL
 YGYWGNKGGVNVCLKLYGYVSIINCHLPPHMYNNDQRLEHFDRILESLTFEGYDVPNILDHDLILWFGD
 MNFRIEDFGLLFVQESITRKYKELWEKDLFIKKNDQLLREFQEGPLLPPTYKFRHSNNDYDSEKK
 RKPAWTDRILWRLKRQPSQASPLASSVPTSYFLLTLKNYVSHMAYISDHKPVGTGFDLELNPLMSVPLI
 TMMPEHLWTMENDMLISYTSPEFLSSSWDWIGLYKVGMRHINDYVAYVWVGDNQVSYGNPNQVYINIS
 AIPDTEQFLLCYYSNNLHLSVVGISQPFKIPIRSFLREDTLYEPEPQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008916

ORF Size: 1407 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_008916.2](#), [NP_032942.1](#)

RefSeq Size: 2660 bp

RefSeq ORF: 1407 bp

Locus ID: 19062

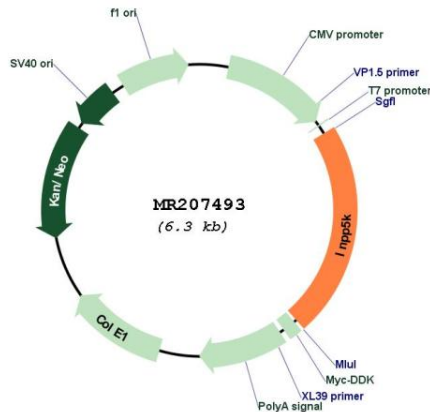
UniProt ID: [Q8C5L6](#)

Cytogenetics: 11 45.92 cM

MW: 54.2 kDa

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]

Product images:



Circular map for MR207493