

## Product datasheet for **MG207493**

### Inpp5k (NM\_008916) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5k (NM_008916) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Inpp5k
Synonyms:	C62; Pps; SKIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207493 representing NM\_008916  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGCACGGAGACAGGAACACACCGGGTTACCGCGAGGAATAATGTGCGCTGTGAGTCTAAGGAGGC  
 CGAGCGCACCGAAAGCCTTTCAGCTCAGCGTACATGTTGTGACGTGGAATGTGGCCTCCGACGCCCCAC  
 TGTAGACCTCAGTGACCTACTTCAACTGAACAACCAAGACCTGAATCTGGACATATATATCATTGGTTTG  
 CAGGAAATGAATTTTGAATCATAAGCCTTCTTTCTGATGCTGCTTTTGAAGACCCATGGAGCAGTCTCT  
 TCATGGATATGCTTTCCCAGTGAACCTTTGTCAAGATCTCTCAAGTCCGTATGCAGGGGCTTCTCTTACT  
 GGTCTTTGCCAAGTACCAGCATTGGCCCTACATCCAGATCATCTCTACGAAATCCACCCCACTGGCCTC  
 TACGGGTACTGGGGAACAAAGGGGAGTCAACGTCTGCCTGAAGCTTTATGGCTACTACGTCAGCATCA  
 TCAATTGCCACCTGCCTCCTCATATGTATAACAATGACCAGCGCCTGGAACACTTTGACCGAATCTTGA  
 GAGTCTGACTTTTGGGGATATGATGTCCCAACATCCTGGACCATGACCTCATTCTGTGGTTTGGAGAC  
 ATGAACTTTCAATTGAGGACTTTGGGTTGCTCTTTGTGCAAGGAGATATAACGAGGAAGTACTACAAGG  
 AGCTGTGGGAGAAAGATCAGCTTCTCATTGCCAAGAAAAATGACCAGCTGCTCCGCGAGTCCAGGAAGG  
 CCCGCTGCTTCCCACCCACCTACAAGTTTGACCGTCACTCCAACAATGACACCAAGTGAAGAAAAA  
 CGCAAGCCTGCGTGGACTGACCGCATCCTGTGGAGGTTGAAGCGGCAGCCGTCCCAGGCCAGCCCTTGG  
 CCTCCAGTGTACCAACCTCCTACTTCTTGTGACTGAAGAATATGTCAGCCACATGGCATACAGCAT  
 CAGTGACCATAAGCCTGTCACTGGACCTTTGACTTGGAGCTGAACCACTGATGCTGTCCCAGTATC  
 ACTATGATGCCTGAACACCTGTGGACCATGGAGAACGACATGCTGATCAGCTACACCTCCACCCAGAGT  
 TCCTCAGCAGCTCCTGGGACTGGACTCGGACTATACAAGGTGGGGATGCGTCACATTAATGACTATGATC  
 CTATGTCTGGGTGCGCGACAACCAAGTCTCCTATGGTAACAACCCAAACCAAGGTATATCAACATCAGT  
 GCTATCCCTGACTGAGGATCAGTTTCTTCTCTGTTACTATAGCAACAACCTGCACTCTGTAGTGGGA  
 TAAGTCAACCCTCAAGATCCCATTGCTCCTTTTGGAGAGGACACACTGTATGAGCCTGAGCCACA  
 GATC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207493 representing NM\_008916  
 Red=Cloning site Green=Tags(s)

MQHGDRNTPGYREGIMSAVSLRRPSAPKGFALSVHVVTWNVASAAPTVDLSDLLQLNNQDLNLDIYIIGL  
 QEMNFGIISLLSDAAFEDPWSSLFMDMLSPLNFVKISQVRMQGLLLL VFAKYQHLPIYIISTKSTPTGL  
 YGYWGNKGGVNVCLKLYGYVYSIINCHLPPHMYNNDQRLEHFDRILESLTFEGYDVPNILDHDLILWFGD  
 MNFRIEDFGLLFVQESITRKYKELWEKDQLFIKKNDQLLREFQEGPLLPPTYKFRHSNNYDTSEKK  
 RKPAWTDRILWLRKRQPSQASPLASSVPTSYFLLTLKNYVSHMAYISDHKPVGTGFDLELNPLMSVPLI  
 TMMPEHLWTMENDMLISYTSPEFLSSSDWIGLYKVGMRHINDYVAYVWVGDNDQVSYGNNPNQVYINIS  
 AIPDTEQFLLCYSSNNLHSSVVGISQPFKIPIRSFLREDTLYEPEPQI

**TRTRPLE** - GFP Tag - V

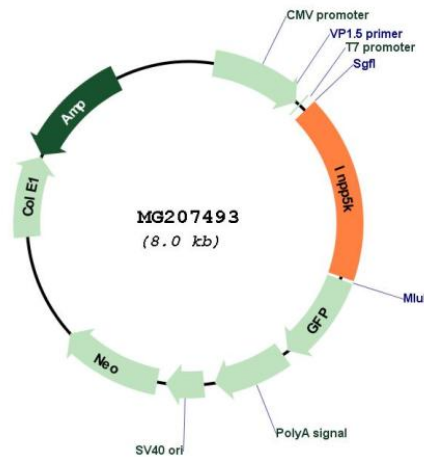
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_008916

ORF Size: 1404 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

**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]