

## Product datasheet for **MG211203**

### **Inpp4b (NM\_001024617) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Inpp4b (NM_001024617) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Inpp4b
Synonyms:	E130107117Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211203 representing NM\_001024617  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAATCAAAGAGGAAGGAACATCAGAAGAAGCCAGCATTTTCTTCGCGCTCAGGCAAATGACC  
 CTGAGGACATTCAGTTTACCAGCATCCAGAAGATTCCGAACGAGCCACAGTTGGAATTCATTCTCGCCTG  
 CAGGGATCTTGTGGCTCCTGTGCTGATCGCAAATGAATACAGTAGTCCAGATCTCAGTAATCCACCCG  
 GTGGAGCAGACCCTGACGAGGACTCCAGCACAGAAATTGTGGAGGAACAAAAGACCCACTGTTCTTAA  
 CGGGTGTACATTCACCCGACTACCCCATCTATGAAGAGACAAGAATAAACTGACAGTCTACGATGT  
 CAAGGATAAGTCTCATGATACTAGAAGCTTCTGGGCTGTGCCAGTTTTAAAGTTGGGGAGCTGCTGAAG  
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 TCCGTGAGCAGATGTGAGAAAGCATCCTTTCTTTTCATATTCTAAGGAATTGATTTCCCTTCACATAAA  
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 GCCACCTCTCCTAATGTCAGCACAGAGGAGAAAAGTACTCAGCATGATACCCACAGCTTAGAAGACAA  
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 TCTGAGAAGAGACATTGTCTTCACTCAGCGCTTGTCTGGATTGGTTTGTGGTTTTATCATCAAATTACAT  
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 GCATGAGAAGCAGACAAACCCAGGGAGCCTTGAATGAATCCGATGATCCTGAGACAGGCTGCCTAACTGA  
 TAACAAGCCAACCTCTCGACACTTCTATCTGTCGCTTGTCTTGTGCTCAGCTCACACCTGCTAGTTGTG  
 TGGCTATTTAAGTCTTGCATTACTCTTAGCCAAATACCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG211203 representing NM\_001024617  
 Red=Cloning site Green=Tags(s)

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MEIKEEGTSEEGQHFLPAAQANDPEDIQFTSIQKIPNEPQLEFILACRDLVAPVSDRKLNTVVQISVIHP
VEQTLTRYSSSTEIVEGTDPLFLTGVTFPPDYPIYEETRIKLTVDVKDKSHDTRSFLGCASFVGGELLK
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NAVLRNPVCKLYRFPTSDNKWMRIREQMSEILSFHIPKELISLHIKEDLCRNQELKELGDLSPHWDNLR
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APAAHFQGFKNGLRKLHLRFETERRNTGYQFIYSPENTAKAKEVLSINQLQPLIATHADLLLSASQ
RSPDSLKSSLLKLLSEKTELFVHAFKQLVRSALLALYTARPGGILKPPSPNVSTEEKSTQHDTPLRRQ
DSIPHHSYDEEEWDRVWANGKSLNCIIAKVDKLIERDSHNEEGAGGSSSKDGEADHTLEDSITSHPRE
DWYEQHLPLILTLKECMGEVVNRAKQSLTFVLLQELAYSLPQCLMLTLRRDIVFSQALAGLVCGFIKLLH
TSLHDPGFLQQLHTVGLIVQYEGLLSTYSDEIGMLEDMAVGISDLRKVAFKITEATSNDVLPVLTGRREH
YVVEVKLPATVFESLPLQIQEGQLLVHYPVLFNVGINEQQTLAERFGDVSQESINQENFELVQEYYSIF
MEKMPPDYISHFQEQTDLKGLLDNLHQNIQAQKRKNVEIMWLAATICRKLNGIRFTCCSAKDRTSMSVT
LEQCSILRDEHQLHKDFFIRALDCMRSRQTQGALNESDDPETGCLTDNKPTSRHFYPVALLLVSSHLLV
WLILSLALLLAKYQ
  
```

TRTRPLE - GFP Tag - V

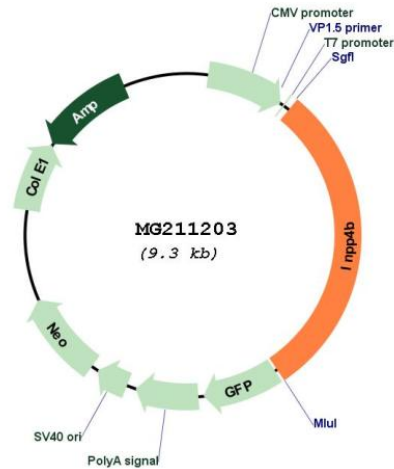
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_001024617

**ORF Size:** 2772 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\\_001024617.1](#)

**RefSeq Size:** 4122 bp

**RefSeq ORF:** 2775 bp

**Locus ID:** 234515

**UniProt ID:** [Q6P1Y8](#)

**Cytogenetics:** 8 39.02 cM

**Gene Summary:**

Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 3,4-bisphosphate (By similarity). Plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3,4-bisphosphate in membrane ruffles (By similarity). Antagonizes the PI3K-AKT/PKB signaling pathway by dephosphorylating phosphoinositides and thereby modulating cell cycle progression and cell survival (By similarity).[UniProtKB/Swiss-Prot Function]