

Product datasheet for **MG211402**

Inpp5b (NM_008385) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Inpp5b (NM_008385) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Inpp5b |
| Synonyms: | 5PTase; 75kD; AW260155; INPP5P |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG211402 representing NM_008385
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACCAGTCTGTGCCAATCCAGGAGACCCTGGTTGAGGGGAATACTGCGTCATCGCAGTCCAAGGTG
 TGCTGTGTAAGGGAGATAGCCGGCAGAGCCGCTGCTCGGGCTGGTGAGGTACCGCTGGAAAATGACGC
 CCAGGAGCATGCTCTCTTCTGTATACACACCGGAGGATGGCCATCACAGGAGACGATGTATCTCTGGAC
 CAGATAGTGCCACTCTCAAAGATTTTATGCTGGAAGAAGTGTCCCAGATGGTGAAGTCTACATCCTTG
 GCTCTGATGTGACAGTACAATTGAACACAGCTGAACTCAAGCTTGTATTCCAAGTCCCTTTGGTTCACA
 CACCAGAACGTTCTCCAGGAAGTGCCAGAGCCTGTCCAGGTTTCGACCCTGAGACGCGGGATCCCGAG
 TTCGAGTGGCTGTCAAGACACACATGCGCGGAGCCGATGCCGAGTCGCCGAAACCGCGGAGTGGAAAT
 CGGACCCGGGTACCCGGAGTGGTTTCGCGCCATTGGAGGAAGCAGGCATCAGTCTCGGAATGCACGGCG
 AGGATTGGAGGATGTCTGCCTAGGGCCCTGGCTACATTCTGCTTTGGGCGGAGCCGCTGAGGAGCCG
 GAATTTCTATTGGCGGAGGAGATGCATGAGGGCGGGCCTGTGAGAGGACGGAGACCGCTCGCCGGCGGC
 GGGATGAAGCGCTTGAGGAAGCAGACTGGGAAATGTCCGCAAGCGCGGGCTCTCGGGAGCCGACTGTGC
 AGGCGTTTCTAACGTCGACAGCTCGAGGCCAAATGGGAGGGGCCCGACCAACCTCCGGAGCCAGGTGT
 CCGGAGAAAACAGAAAATCTCTCACAAGACAGAAATAAATCTAAGTCTGCATGTCTGAAAAGTTTCGCT
 CCGCCACAGTACAGTATCGGACAAGGCTCACATTTTATCCGTGCAGAAGTTGGGCTTCGAGACACAAT
 CGTGAGATCACACCTCGTGCAGAAGGAAGAGAATTATACCTACATCCAGAAGTTCAGGTTTTTTGTGGGA
 ACCTACAATGTGAACGGACAGTCCCCAAAGAATGTCTCCGGCCCTGGCTGAGCCACAGCCCTGGCCC
 CCGAGTGTACTGTGAGGTTCCAGGAGCTCGACCTGAGTAAGGAAGCCTTCTTTCCAGTACCC
 AAAGGAGGAAGAGTGGTTTAAGGCCGTGCAGAAAGCCTTCAACCAGACGCAAGTACGCAAAGGTGAAG
 TTCGTCGACTGGTTGGGATTATGTTGCTGCTGTACGTCAAACAGGAACATGCAGCCTATATCTCAGAAG
 TGAAGCTGAGACCGTAGGGACAGGAATCATGGGAAGGATGGGTAACAAAGGAGGAGTGGCGATCAGGTT
 CCAGCTGCACAACACCAGCATCTGCGTTGTCAATCCCATCTGGCAGCCACACAGAGGAGTACGAGAGG
 AGGAACCAAGACTACAGAGACATTTGTTCTCGAATGCAGTTCCTCAGGTGGATCCGAGCCAACCCCTC
 TCACCATTAACAAGCATGATGTGATCTTGTGGCTGGGAGACCTCAACTACAGGATAGAAGAGCTGGATGT
 GGGAAAGGTGAAAAGCTCGTGAAGAGAAGGCCCTTCAAACCTGTATGCGCACGACCAGCTAAAAATC
 CAGGTGGCTGCCAGGACCATCTTTGATGGCTTCCAGGAGGTGAGATTACATTCCAGCCTACTTACAAGT
 ACGATACTGGCTCTGACGACTGGACACCAGTGAAGAGTGTGTCGACCCGGCCTGGTGTGACCGAATCCT
 GTGGAAAGGAAAGAACATCACTCAGCTGAGTTACCAGAGCCACATGGCCTTGAAGACCAGTGACCACAAG
 CCTGTCAGCTCAGTGTGTTGACATTGGGGTGAAGGTTGTCAATGAAGAAGTCTACCGGAAGACCCTGGAGG
 AAATTTGTCGCTCCCTGGATAAAATGGAACCGCAACATTCCTTCTGTGACCCTCTCCAAGCGGGAGTT
 CTGTTTTGAGAATGTGAAGTACATGCAGTTGCAAACCGAGTCTTACAGATTATAATAGCCAAGTGCCC
 TGTCAGTTTGAATTCATCAACAAGCCTGACGAAGAGTCTACTGTAAGCAGTGGCTGACGGCCAGACCCA
 GCAAGGGCTTCTCCTGCCAGATTGCGATGTTGAGATTGAACTTGAGCTTTTTGTAATAAGTCTACTGC
 CAAAAACTCAACTCAGGCAAGGACACGATTGAAGACATTCTGGTTTTACTTTGGAGCGGGGAAAGGAC
 TACTTTCTGTCTGTGCTGGGAACCTGCCCCAGCTGCTTCGGATCTCCTATCCATACATTGTGCTACA
 TGAGGGAGCCCATCTGGATCTACCACTGAAAAGTGTAGTGACCTGACGTTGATGTCAGTGCAGACTGC
 AGATGACAGGAGCCAGTTGGAGAACCCATGGAATCCCCAAAGAGCTCTGGATGATGGTGGATTACCTG
 TACAGAAATGCCGTCCAGCAGGAAGATCTGTTTCAGCAGCCAGGTCTGAGGCCAGAGTTTGACCATATA
 GGGACTGTCTAGATACTGGGATGATCGACCAGCTCTGTGCTAACAAACATTCTGTAGCCGAAGCCTTGCT
 GCTTTTCTAGAGAGCCTGCCAGAGCCTGTCATCTGTTACAGCGCCTACCATAGCTGCTTGGAGTGTCT
 GGCAATTACGCAGCAAGCAAGCAGATAATTTTAAACCCTCCCAGCTTCCAAAAAATGTCTTCAACTACT
 TGATGGCGTTTTTGAAGAACTGCTGAAAATTCAGCAACAATCATTTGGATGAGAATATTCTAGCTAG
 CATATTTGGCAGCTTACTGCTCCGGAACCCAGCTCGTACCAAAAAGCTTGACATGGCGGAAAAGAAG
 GCCAAGAGTTTTATCCAGGTTCTCTGCGGTCCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211402 representing NM_008385
 Red=Cloning site Green=Tags(s)

```

MDQSVAIQETLVEGEYCVIAVQGVLCCKGDSRQSRLLGLVRYRLEND AQEHALFLYTHRRMAITGDDVSLD
QIVPLSKDFMLEEVSPDGELYILGSDVTVQLNTAELKLVFQLPFGSHTRTFLQEVARACPGDFPETRDP
FEWLSRHTCAEPDAESPKEPREWNSDPGTRSGFAPIGGSRHQSRNARRGLEDVLRPGPGYILLWGGAAEEP
EFLLAEMHEGGPVRGRRPLAGRRDEALEEADWEMSAGGSRERDCAGVSNVDSSRPNGRGPDPQPSGARC
PEKPENSLTRQNKSKSDMSEKVRSA TVTVSDKAHILSVQKFGLRDTIVRSHLVQKEENYTYIQNFRFFVG
TYNVNGQSPKECLRPWLSHSALAPDVYCVGFQELDL SKEAFFFHDTPKEEEFKAVSESLHPDAKYAKVK
FVRLVGI MLLLYVQEAAYISEVEAEVGTGIMGRMGNGGVAIRFQLHNTSICVNVNSHLAAHTEEYER
RNQDYRDICSRMQFPQVDPSPQPLTINKHDVILWL GDLNRYIEELDVGKVKKLVEEKAFQTLY AHDQLKI
QVAARTIFDGFTGEITFQPTYKYDTGSDDDWTSEKCRAPAWCDRILWKGKNITQLSYQSHMALKTSDHK
PVSSVFDIGVRVVNEELYRKTLEEIVRSLDKMENANIPSVTL SKREFCFENVKYMQLQTESFTIHNSQVP
CQFEFINKPDEESYCKQWLTARPSKGFLLPD SHVEIELEL FVNKSTATKLN SGKDTIEDILVHLERGKD
YFLSVSGNYLPSCFGSP IHTLCYMRPILDPLKTVSDLTMSVQTADDRSQLENPMEIPKELWMMVDYL
YRNAVQQEDLFQQPGLRPEFDHIRDCLDTGMIDQLCANNHSVAEALLL FLES LPEPVICYSAYHSCL ECS
GNYAASKQIILTLPSFHKNVFNYLMAFLQEL LKNSANNHLDENILASIFG SLLL RNP ARHQKLDMAEKKK
AQEFIHQFLCGPL
    
```

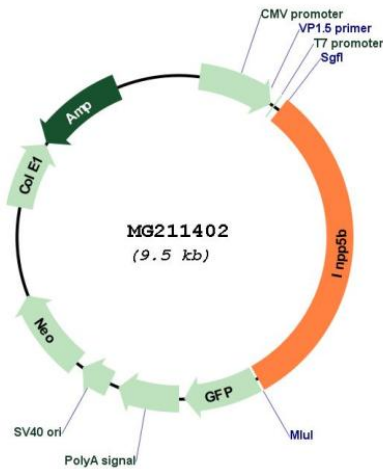
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_008385

ORF Size: 2979 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_008385.3](#), [NP_032411.3](#)

RefSeq Size: 3826 bp

RefSeq ORF: 2982 bp

Locus ID: 16330

UniProt ID: [Q8K337](#)

Cytogenetics: 4 57.89 cM

Gene Summary:

This gene encodes a member of the inositol polyphosphate-5-phosphatase (INPP5) family. This protein hydrolyzes the 5' phosphate from phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol-1,4,5-trisphosphate, which results in changes to multiple signaling pathways. This protein may be involved in protein trafficking and secretion. Homozygous knockout mice exhibit impaired spermatogenesis and male sterility. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Nov 2014]