

## Product datasheet for **MC206079**

### Inpp4b (BC064813) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp4b (BC064813) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Inpp4b
Synonyms:	E130107117Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC064813  
GAGCCCTAAAACCAGCGAAAACAATAATCAAAGGTACAAGGTGTTGAAGAACAACCTATATCAGAATTT  
CACAGTGGACTATTAATGTGAAGATACGCCAACGTTAAACCGGAGCTCATTATTTGGTACCATTTGAAAA  
AGACACCGTGGAGAATAGGTCCGTTGTGAGGTGGATCATGGAAATCAAAGAGGAAGGAACATCAGAAGAA  
GGCCAGCATTTTTCTTCTGCAGCTCAGGCAAATGACCCTGAGGACATTCAGTTTACCAGCATCCAGAAGA  
TTCCGAACGAGCCACAGTTGGAATTCATTCTCGCCTGCAGGGATCTTGTGGCTCCTGTCAGTGATCGCAA  
ACTGAATACAGTAGTCCAGATCTCAGTAATCCACCCGGTGGAGCAGACCCTGACGAGGACTCCAGCACA  
GAAATTGTGGAGGAACAAAAGACCCACTGTTCTAACGGGTGTCACATCCCACCGGACTACCCCATCT  
ATGAAGAGACAAGAATAAACTGACAGTCTACGATGTCAAGGATAAGTCTCATGATACTAGAAGCTTCTCT  
GGGCTGTGCCAGTTTTAAAGTTGGGGAGCTGCTGAAGTCCAAGGAGCAGCTGCTGTCCCTGAGCCTGAGA  
ACCTCAGATGGTGGCAAAGTGGTCGGCACCATAGAAGTCAAGCCTCGTGAAGATGGGAGAGATTGAGGATG  
GGGACACCGACCACATCAACAGATGTGACGGGACAAAAGTGTGCACTAATGTATGAATCCACAGCACC  
AGAAAAGTCTGAGCGGGAAGGAAAACCTTACCTTTTATGAATGCAGTCTTAAGGAATCCTGTGTGTAAGCTG  
TATAGATTTCCCCACATCTGACAATAAGTGGATGCGAATCCGTGAGCAGATGTCAGAAAAGCATCCTTTCTT  
TTCATATTCCTAAGGAATTGATTTCCCTTCACATAAAAAGAAGACTTATGTAGAAAACAGGAGTTAAAAGA  
ACTTGGTGACCTTTCCCCACACTGGGACAACCTACGGAATAATGTCTTTCTCACTGTGATCAAATGGTG  
ACTATGTACCAAGACATCTGACAGAACCTTCAAAGAAAACAGGGTCTCTTTCAAATCCAGCAGCAGCA  
AAGGAGAGAAAACATTAGAATTTGTTCCAGTAAATCTACACTTGAACGGATGCAGGTGCACAGCCCTCA  
CCTGAAAGATGCTCTCTATGATGTCATCACTGTGGGGCCCCAGCTGCCATTTTCAGGGATTCAAGAAC  
GGTGGTCTTCGTAACCTCCTCCATAGGTTTGAGACAGAGAGAAGGAACACCGGCTACCAGTTTATTTACT  
ATTCACCTGAGAACACAGCGAAGGCAAAGGAAAGTTCTCAGCAGCATCAATCAGCTACAACCTCTCATAGC  
AACTCATGCAGACCTGCTGCTAACCTCTGCCAGCCAGCGTTCTCCAGACAGCCTGAAGAGCTCTTTAAAG  
CTGCTTTTCAGAAAAAACTGAGCTTTTTGTCCATGCCTTCAAGGACCAGCTGGTCAGGAGTCTCTTTAG  
CTCTCTACACTGCAAGGCCAGGAGGCATCCTTAAGAAGCCACCCTCTCCTAATGTCAGCAGCAGAGGAGAA  
AAGTACTCAGCATGATACCCACAGCTTAGAAGACAAGACTCCATACCACATCATTCTGACTATGATGAA  
GAAGAGTGGGATAGGGTGTGGGCCAACGTGGGGAAGAGCCTGAAGTGCATTATCGCTAAAGTAGACAAC  
TGATCGAGAGAGACAGTACAACGAAGAAGGTGCTGGAGGCAGCAGTAGCAAGGATGGAGAGGCAGACCA



[View online »](#)

TACCCTGGAAGATTCCATCACATCTCACCCACGTGAGGACTGGTATGAACAGCTGCACCCACTCATCCTT  
 ACCTTGAAGGAGTGCATGGGAGAAGTGGTGAACCGAGCAAAGCAATCCCTGACATTTGACTGCTTCAGG  
 AACTGGCCTACAGTCTGCCCCAGTGTGGTATGCTGACTCTGAGAAGAGACATTGTCTTCAGTCAGGCGCT  
 TGCTGGATTGGTTTGTGGTTTTATCATCAAATTACATACAAGTTTGCATGACCCTGGCTTCTACAGCAG  
 CTTACATACAGTGGGCTTGATAGTACAATACGAAGGACTGCTAAGTACTTACAGTGATGAAATTGGAATGC  
 TGGAGGACATGGCAGTCGGCATTTCAGATTTGAGGAAAAGTTGCATTTAAAATAACTGAAGCCACGTCCAA  
 TGATGTCCTTCTGTTCACGGGGAGACGGGAACACTATGTGGTGGAGGTCAAGCTTCCAGCTACAGTA  
 TTTGAGTCGCTCCCACTGCAGATTAAGAAGGCCAGTTGCTTCATGTGTATCCCGTTCTGTTTAAATGTCG  
 GAATCAATGAGCAGCAGACTCTGGCTGAGAGGTTTGGAGATGTTTCTTTGCAAGAAAGTATTAATCAAGA  
 AAATTTTGAACCTGTACAAGAATATTATCAATATTTATGAAAAAGATGCCTCCTGATTATATTTACAT  
 TTTCAAGAACAACTGATTTAAAGGACTGTTGGACAATCTCCACCAAAATATTCAAGCCAAAAAAGAA  
 AGAATGTAGAAATCATGTGGCTGGCAGCAACGATTTGTCGAAAACCAATGGCATTCTGTTTACCTGCTG  
 TAAAAGTGCCAAAGACAGGACATCGATGTCGGTGACACTGGAACAGTCTCCATCCTGAGAGACGAGCAT  
 CAACTGCACAAAGACTTTTTTCATCAGAGCTTTAGATTGCATGAGAAGCAGACAAACCCAGGGAGCCTTGA  
 ATGAATCCGATGATCCTGAGACAGGCTGCCTAACTGATAACAAGCCAATTCTCGACACTTCTATCTGT  
 CGCCTTGCTTCTGTGACGCTCACACCTGTAGTTGTGGCTATTTTAAAGTCTTGCATTACTCTTAGCC  
 AAATACCAATAAGTTTTATGTTGTGTTCTTGGCTTTTCTACAAATGACAATGGACTTTAATTCTGGGGAC  
 AATGTTGTAAGATTTCTACATTTTACAGATTCACAGAACTTAAAAAAGACTAGAAGAAATGTTTGAATTG  
 TGGTTTTGTTTTGTTTTGTTTTCCCTAAAACCTAAAGGCAAAAGGTAAGTATGCATTAAGTGGATTATT  
 TTGCTCTTTTGTTCATGGAAAAGTGTTTTACCTACTGTTAAATAGCTAAAGACAAGTTTTTAACTTATTG  
 TCTTTGGAATAAGACAAAGAATAGAATCCTGCAAGCTTGAAGTCCGAACCTCCTTCCAGGTCAATTT  
 ATTAAGAAATTAGGCTGACATTGTGCAGCAGTTAAGCCCCAAGACAATCCGGGAAGCGGAGTTGCA  
 GACTTTTCTTCCACTGTGCTAATATTAACATAGTTGTCATCGGCTGATCGAAATGTGTCTGCTTTCTTAC  
 TCTGTTCTAGTCACCCCTTACTCATCCATGTGTTTAACTTCTTCTGTCAAGTACTTTATGGAAGAA  
 TGCTATTTCTGTTTTGAATTAATTAACCTGTTTGAACCTCTGTTTGGGTTGACTTGGCTTTCAGAC  
 TACTTTTCTATTCTTTTAAACAAGGTCTCATTGTGTCTTGTGCGCCATTTTGTAGCACCTGTGACTTTT  
 GTACTGCTGGAGAGGAACGGCTGTTTCAGAAAGCCATTTTCTCTGCAATGCATAGCTAAAAAATGAGG  
 TAAAGTAGGGATGGAATTTCTTTAAAAATCTATAGGGCCAGACTTAATAAATTAATGCCTTATTCCTA  
 GAACTGCATCCTTAGGGCTACATGTAGATTTTAAATGTGTTTTAAGGGACAGATAGTTAATTTGTGGAAAA  
 GTTATACAAAGGCAGATATTTTATGAAATTAAGTAAAGCTGTATTGTGAAGCAATTAATTTAAAGA  
 GTTTATTAAGTCAAATAACTGTTAAGAACTTAATCATATCTTCCGAAGGAATAATGGTATTGGGC  
 CTGGCCTAGGATTTAATTTTGAAGATGTATCATCACTTGTGGAAAAACAAAATGTAGAGTTGAATCTTT  
 GTTATTTTACTTGGACTGTTGCTGCAACTCTGCATTGAACAAATAAAGCATATTTATTTAAAAA  
 AA

- Restriction Sites:** Ascl-NotI
- ACCN:** BC064813
- Insert Size:** 2775 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:** [BC064813](#), [AAH64813](#)

**RefSeq Size:** 4191 bp

**RefSeq ORF:** 2775 bp

**Locus ID:** 234515

**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]