

Product datasheet for **MC229184**

Inpp4b (NM_001297596) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp4b (NM_001297596) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Inpp4b
Synonyms:	E130107I17Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229184 representing NM_001297596
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCAAAGAGGAAGGAACATCAGAAGAAGCCAGCATTTTCTTCGCGACTCAGGCAAATGACC
 CTGAGGACATTCAGTTTACCAGCATCCAGAAGATTCCGAACGAGCCACAGTTGGAATTCATTCTCGCCTG
 CAGGGATCTTGTGGCTCCTGTCACTGATCGGAACTGAATACAGTAGTCCAGATCTCAGTAATCCACCCG
 GTGGAGCAGACCCTGACGAGTACTCCAGCACAGAAATTGTGGAGGAACAAAAGACCCACTGTTCTTAA
 CGGGTGTACATTTCCACCGACTACCCCATCTATGAAGAGACAAGAATAAACTGACAGTCTACGATGT
 CAAGGATAAGTCTCATGATACTATTGAAACAGTGTCTTCCGGAACACAAGGATCCCTGCCAGAAGTT
 GCGAGAAGCTTCTGGGCTGTGCCAGTTTAAAGTTGGGAGCTGCTGAAGTCCAAGGAGCAGCTGCTGT
 CCCTGAGCCTGAGAACCTCAGATGGTGGCAAAGTGGTCCGACCATAAGAAGTCAGCTCGTGAAGATGGG
 AGAGATTGAGGATGGGGACCCGACCACATCACAACAGATGTGCAGGGACAAAAGTGTGACTAATGTAT
 GAATCCACAGCACCAGAAAGTCTGAGCGGGAAGGAAAACCTTACCTTTTATGAATGCAAGTCTTAAGGAATC
 CTGTGTGTAAGCTGTATAGATTCACCATCTGACAATAAGTGGATGCGAATCCGTGAGCAGATGTCAGA
 AAGCATCCTTTCTTTTATATTCTAAGGAATTGATTTCCCTTACATAAAAAGAAGACTTATGTAGAAAAC
 CAGGAGTTAAAAGAACTTGGTGACCTTTCCACACTGGGACAACCTACGGAAAAATGTCCTTTCTCACT
 GTGATCAAATGGTGACTATGTACCAAGACATCTGACAGAACCTTCCAAGAAAACAGGGTCTCTTTCAA
 ATCCAGCAGCAGCAAAGGAGAGAAAACATTAGAATTTGTTCCAGTAAATCTACACTTGAACGGATGCAG
 GTGCACAGCCCTCACCTGAAAGATGCTCTCTATGATGTCATCACTGTGGGGCCCCAGCTGCCATTTTC
 AGGAGTTCAAGAACGGTGGTTCGTAACCTCCATAGTTTGAGACAGAGAGAGAAGAACACCCGCTA
 CCAGTTTATTACTATTACCTGAGAACACAGCGAAGGCAAGGAAGTTCTCAGCAGCATCAATCAGCTA
 CAACCTCTCATAGCAACTCATGCAGACCTGCTGCTAACCTCTGCCAGCCAGCGTTCTCCAGACAGCTGA
 AGAGCTCTTAAAGCTGCTTTCAGAAAAAACTGAGCTTTTTGTCCATGCCTTCAAGGACCAGCTGGTCAG
 GAGTGCTCTTTAGCTCTTACTGCAAGGCCAGGAGGCATCCTTAAGAAGCCACCCTCTCCTAATGTC
 AGCACAGAGGAGAAAAGTACTCAGCATGATACCCACAGCTTAGAAGACAAGACTCCATACCACATCATT
 CTGACTATGATGAAGAAGAGTGGGATAGGGTGTGGCCAACTGGGGAAGAGCCTGAACTGCATTATCGC
 TAAAGTAGACAACTGATCGAGAGAGACAGTCACAACGAAGAAGGTGCTGGAGGCAGCAGTAGCAAGGAT
 GGAGAGGCAGACCATACCCTGGAAGATTCCATCAGATCTCACCCAGTGGAGACTGGTATGAACAGCTGC
 ACCCACTCATCCTTACCTTGAAGGAGTGCATGGGAGAAGTGGTGAACCGAGCAAAGCAATCCCTGACATT
 TGTACTGCTTCAGGAACTGGCCTACAGTCTGCCCAAGTGTGGATGCTGACTCTGAGAAGAGACATTGTC
 TTCAGTCAGGCGCTTGTGGATTGGTTTGTGGTTTATCATCAAATTACATACAAGTTTGCATGACCCTG
 GCTTCTACAGCAGCTTCATACAGTGGGCTTGTAGTACAATACGAAGGACTGCTAAGTACTTACAGTGA
 TGAAATTTGGAATGCTGGAGGACATGGCAGTCGGCATTTCAGATTTGAGGAAAGTTGCATTTAAAATACT
 GAAGCCACGTCCAATGATGTCCTTCTGTTCTCACGGGAGACGGGAACACTATGTGGTGGAGGTCAAGC
 TTCCAGCTACAGTATTTGAGTCGCTCCCACTGCAGATTAAGAAGGCCAGTTGCTTCATGTGTATCCCGT
 TCTGTTTAAATGTCGGAATCAATGAGCAGCAGACTCTGGCTGAGAGGTTTGGAGATGTTTCTTTGCAAGAA
 AGTATTAATCAAGAAAATTTGAACTTGTACAAGAATATTATCAATATTTATGGAAAAGATGCCTCCTG
 ATTATATTTACATTTTCAAGAACAACACTGATTTAAAAGGACTGTTGGACAATCTCCACCAAAAATTTCA
 AGCCAAAAAAGAAAGAAATGTAGAAATCATGTGGCTGGCAGCAACGATTTGTCGAAAACCAATGGCATT
 CGTTTTACCTGCTGTAAGAGTGCAAAAGACAGGACATCGATGTCGGTGACTGGAACAGTGTCCATCC
 TGAGAGACGAGCATCACTGCACAAGACTTTTTATCAGAGCTTTAGATTGCATGAGAAGAGAAGGATG
 CCGCATAGAGAATGACTGAAGAATATCAAATGCAGGAGGTATGCTTTCAACATGCTACAGCTGATGGCT
 TTCCCAAGTGTACAGACCTCCAGAAGGCACTTATGAAAAGCTGACACCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001297596
Insert Size:	2784 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001297596.1</u> , <u>NP_001284525.1</u>
RefSeq Size:	8367 bp
RefSeq ORF:	2784 bp
Locus ID:	234515
Cytogenetics:	8 39.02 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) uses an alternate last exon compared to variant 1. The resulting isoform (4) has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>