

Product datasheet for **MC229070**

Inpp4b (NM_001297593) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp4b (NM_001297593) 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: >MC229070 representing NM_001297593
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCTGAGGACATTCAGTTTACCAGCATCCAGAAGATTCCGAACGAGCCACAGTTGGAATTCATTCT
 CGGGAACAAAAGACCCACTGTTCTTAACGGGTGTACATTCCCACCGACTACCCCATCTATGAAGAGAC
 AAGAATAAAACTGACAGTCTACGATGTCAAGGATAAGTCTCATGATACTATTGAAACAGTGCCTTCCG
 GAACACAAGGATCCCCTGCCAGAAGTTGCGAGAAGCTTCTGGGCTGTGCCAGTTTTAAAGTTGGGGAGC
 TGCTGAAGTCCAAGGAGCAGCTGCTGTCCCTGAGCCTGAGAACCTCAGATGGTGGCAAAGTGGTCGGCAC
 CATAGAAGTCAGCCTCGTGAAGATGGGAGAGATTGAGGATGGGGACCCGACCACATCACAAACAGATGTG
 CAGGGACAAAAGTGTGACTAATGTATGAATCCACAGCACCAGAAAGTCTGAGCGGGAAGGAAAACCTTAC
 CTTTTATGAATGCAGTCTTAAGGAATCCTGTGTGAAGCTGTATAGATCCCCACATCTGACAATAAGTG
 GATGCGAATCCGTGAGCAGATGTGAGAAAGCATCTTTCTTTTCATATTCCCTAAGGAATTGATTTCCCTT
 CACATAAAAGAAGACTTATGTAGAAACAGGAGTTAAAAGAAGTGGTGACCTTTCCCACACTGGGACA
 ACCTACGGAAGAAATGTCCTTTCTCACTGTGATCAATGGTACTATGTACCAAGACATTCTGACAGAACT
 TTCCAAAGAAACAGGGTCTCTTTCAAATCCAGCAGCAGCAAAGGAGAGAAAACATTAGAATTTGTTCCA
 GTAATCTACACTTGCAACGGATGCAGGTGCACAGCCCTCACCTGAAAGATGCTCTCTATGATGTATCA
 CTGTGGGGGCCCCAGTGCCTTTTTCAGGGATTCAAGAACGGTGGTCTTCGTAACCTCCATAGGTT
 TGAGACAGAGAGAAGAACACCGGCTACCAGTTTATTTACTATTCACCTGAGAACACAGCGAAGGCAAAG
 GAAGTTCTCAGCAGCATCAATCAGCTACAACCTCTCATAGCAACTCATGCAGACCTGCTGCTAACCTCTG
 CACGCCGCTTCCAGACAGCCTGAAGAGCTTTTAAAGCTGCTTTTCAGAAAAAAGACTGCTTTTGT
 CCATGCCTTCAAGGACCAGCTGGTCAAGGAGTCTCTTTTAAAGCTCTCTACACTGCAAGGCCAGGAGGCATC
 CTTAAGAAGCCACCTCTCCTAATGTGACGACAGAGGAGAAAAGTACTCAGCATGATACCCACAGCTTA
 GAAGACAAGACTCCATACCACATCATTCTGACTATGATGAAGAAGAGTGGGATAGGGTGTGGGCCAACGT
 GGGGAAGAGCCTGAACTGCATTATCGCTAAAGTAGACAACTGATCGAGAGAGACAGTCACAACGAAGAA
 GGTGCTGGAGGCAGCAGTAGCAAGGATGGAGAGGCAGACCATACCCTGGAAGATTCCATCACATCTCACC
 CACGTGAGGACTGGTATGAACAGCTGCACCCACTCATCTTACCTGAAGGAGTGCATGGGAGAAGTGGT
 GAACCGAGCAAAGCAATCCCTGACATTTGTACTGCTTCAGGAAGTGGCCTACAGTCTGCCCCAGTGTG
 ATGCTGACTCTGAGAAGAGACATTGTCTTCAGTCAGGCGCTTGGTGGATTGGTTTGTGGTTTATCATCA
 AATTACATACAAGTTTGCATGACCTGGCTTCTACAGCAGCTTATACAGTGGGCTTGATAGTACAATA
 CGAAGGACTGCTAAGTACTTACAGTGTGAAATGGAAATGCTGGAGGACATGGCAGTCCGCATTTAGAT
 TTGAGGAAAGTTGCATTTAAAATAACTGAAGCCACGTCCAATGATGTCCTTCTGTTCTCACGGGGAGAC
 GGGAACTATGTGGTGGAGGTCAAGCTTCCAGCTACAGTATTTGAGTCGCTCCCACTGCAGATTAAGA
 AGGTTTGGAGATGTTCTTTGCAAGAAAGTATTAATCAAGAAAATTTGAACTTGTACAAGAATATTATT
 CAATATTTATGAAAAGATGCCTCCTGATTATTTTACATTTTCAAGAACAAGTATTTAAAAGGACT
 GTTGGACAATCTCACCAAAAATTTCAAGCCAAAAAAGAAAGAAATGTAGAAATCATGTGGCTGGCAGCA
 ACGATTTGTGCGAAACTCAATGGCATTCTGTTTTACCTGCTGTAAAAGTGCCAAAGACAGGACATCGATG
 CGGTGACACTGGAACAGTCTCCATCCTGAGAGACGAGCATCAACTGCACAAAGACTTTTTTCATCAGAGC
 TTTAGATTGCATGAGAAGAGAAGGATGCCGCATAGAGAATGACTGAAGAATATCAAATGCAGGAGGTAT
 GCTTTCAACATGCTACAGCTGATGGCTTTCCCAAGTGTACAGACCTCCAGAAGGCACTTATGGAAGAG
 CTGACACCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001297593

Insert Size:	2601 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_001297593.1</u> , <u>NP_001284522.1</u>
RefSeq Size:	8248 bp
RefSeq ORF:	2601 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 (3) lacks an alternate internal exon and uses an alternate last exon compared to variant 1. The resulting isoform (3) has shorter and distinct N- and C-termini 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>