

Product datasheet for **MC229194**

Inpp4b (NM_001297591) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp4b (NM_001297591) 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: >MC229194 representing NM_001297591
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCAAAGAGGAAGGAACATCAGAAGAAGCCAGCATTTTCTTCGCGACTCAGGCAAATGACC
 CTGAGGACATTCAGTTTACCAGCATCCAGAAGATTCCGAACGAGCCACAGTTGGAATTCATTCTCGCCTG
 CAGGGATCTTGTGGCTCCTGTCAGTGATCGGAACTGAATACAGTAGTCCAGATCTCAGTAATCCACCCG
 GTGGAGCAGACCCTGACGAGTACTCCAGCACAGAAATTGTGGAGGAACAAAAGACCCACTGTTCTTAA
 CGGGTGTACATTCACCGGACTACCCCATCTATGAAGAGACAAGAATAAACTGACAGTCTACGATGT
 CAAGGATAAGTCTCATGATACTATTGAAACAGTGTCTTCCGGAACACAAGGATCCCTGCCAGAAGTT
 GCGAGAAGCTTCTGGGCTGTGCCAGTTTAAAGTTGGGAGCTGCTGAAGTCCAAGGAGCAGCTGCTGT
 CCCTGAGCCTGAGAACCTCAGATGGTGGCAAAGTGGTCCGACCATAGAAGTCAGCCTCGTGAAGATGGG
 AGAGATTGAGGATGGGGACCCGACCACATCACAACAGATGTGCAGGGACAAAAGTGTGACTAATGTAT
 GAATCCACAGCACCAGAAAGTCTGAGCGGGAAGGAAAACCTTACCTTTTATGAATGCAAGTCTTAAGGAATC
 CTGTGTGTAAGCTGTATAGATTCACCATCTGACAATAAGTGGATGCGAATCCGTGAGCAGATGTCAGA
 AAGCATCCTTTCTTTTATATTCTAAGGAATTGATTTCCCTTACATAAAAAGAAGACTTATGTAGAAAAC
 CAGGAGTTAAAAGAACTTGGTGACCTTTCCACACTGGGACAACCTACGGAAAAATGTCCTTTTCTCACT
 GTGATCAAATGGTGACTATGTACCAAGACATCTGACAGAACTTTCCAAGAAAACAGGGTCTCTTTCAA
 ATCCAGCAGCAGCAAAGGAGAGAAAACATTAGAATTTGTTCCAGTAAATCTACACTTGAACGGATGCGAG
 GTGCACAGCCCTCACCTGAAAGATGCTCTCTATGATGTCATCACTGTGGGGCCCCAGCTGCCATTTTC
 AGGATTCAAGAACGGTGGTCTTCGTAACCTCCATAGTTTGAGACAGAGAGAAAGAACCCGGCTA
 CCAGTTTTTACTATTACCTGAGAACACAGCGAAGGCAAGGAAGTTCTCAGCAGCATCAATCAGCTA
 CAACCTCTCATAGCAACTCATGCAGACCTGCTGCTAACCTCTGCCAGCCAGCGTTCTCCAGACAGCTGA
 AGAGCTCTTAAAGCTGCTTTCAGAAAAAACTGAGCTTTTTGTCCATGCCTTCAAGGACCAGCTGGTCAG
 GAGTGCTCTTTAGCTCTTACTGCAAGGCCAGGAGGCATCCTTAAGAAGCCACCCTCTCCTAATGTC
 AGCACAGAGGAGAAAAGTACTCAGCATGATACCCACAGCTTAGAAGACAAGACTCCATACCACATCATT
 CTGACTATGATGAAGAAGAGTGGGATAGGGTGTGGCCAACTGGGGAAGAGCCTGAACTGCATTATCGC
 TAAAGTAGACAACTGATCGAGAGAGACAGTACAACGAAGAAGGTGCTGGAGGCAGCAGTAGCAAGGAT
 GGAGAGGCAGACCATACCCTGGAAGATTCCATCAGATCTCACCCAGTGGAGACTGGTATGAACAGCTGC
 ACCCACTCATCCTTACCTTGAAGGAGTGCATGGGAGAAGTGGTGAACCGAGCAAAGCAATCCCTGACATT
 TGTACTGCTTCAGGAACTGGCCTACAGTCTGCCCAAGTGTGGTGTGACTCTGAGAAGAGACATTGTC
 TTCAGTCAGGCGCTTGTGGATTGGTTTGTGGTTTATCATCAAATTACATACAAGTTTGCATGACCCTG
 GCTTCTACAGCAGCTTCATACAGTGGGCTTGTAGTACAATACGAAGGACTGCTAAGTACTTACAGTGA
 TGAAATTTGGAATGCTGGAGGACATGGCAGTCGGCATTTCAGATTTGAGGAAAGTTGCATTTAAAATACT
 GAAGCCACGTCCAATGATGTCCTTCTGTCTCACGGGAGACGGGAACACTATGTGGTGGAGGTCAAGC
 TTCCAGCTACAGTATTTGAGTCGCTCCCACTGCAGATTAAGAAGGCCAGTTGCTTCATGTGTATCCCGT
 TCTGTTTAAATGTCGGAATCAATGAGCAGCAGACTCTGGCTGAGAGGTTTGGAGATGTTTCTTTGCAAGAA
 AGTATTAATCAAGAAAAATTTGAACTTGTACAAGAATATTATTCAATATTTATGGAAAAGATGCCTCCTG
 ATTATATTTTACATTTTCAAGAACAACACTGATTTAAAAGGACTGTTGGACAATCTCCACCAAAAATATTCA
 AGCCAAAAAAGAAAGAAATGTAGAAATCATGTGGCTGGCAGCAACGATTTGTCGAAAACCAATGGCATT
 CGTTTTACCTGCTGTAAGTGCAAAAGACAGGACATCGATGTCGGTGACTGGAACAGTGTCCATCC
 TGAGAGACGAGCATCACTGCACAAGACTTTTTATCAGAGCTTTAGATTGCATGAGAAGCAGACAAAAC
 CCAGGGAGCCTTGAATGAATCCGATGATCCTGAGACAGGCTGCCTAACTGATAACAAGCCAACCTCTCGA
 CACTTCTATCCTGTCGCCTTCTTCTGTCAGCTCACACCTGCTAGTTGTGTGGCTATTTTAAAGTCTTG
 CATTACTCTTAGCCAAATACCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN:	NM_001297591
Insert Size:	2826 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_001297591.1, NP_001284520.1</u>
RefSeq Size:	4406 bp
RefSeq ORF:	2826 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] Transcript Variant: This variant (1) encodes the longest isoform (1).