

## Product datasheet for MC223881

### Inpp5d (NM\_010566) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5d (NM_010566) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Inpp5d
Synonyms:	p150Ship; s-SHIP; SHIP; SHIP-1; SHIP1; SIP-145
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223881 representing NM_010566 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTGCCATGGTCCCTGGGTGGAACCATGGCAACATCACCCGCTCCAAGGCAGAGGAGCTACTTTCCA  
GAGCCGGCAAGGACGGGAGCTTCTTGTGCGTGCCAGCGAGTCCATCCCCGGGCCTACGACTCTGCGT  
GCTGTTCCGGAATTGTGTTTACACTTACAGGATTCTGCCAATGAGGACGATAAATTCAGTGTTCAGGCA  
TCCGAAGGTGTCCCATGAGGTTCTTACGAAGCTGGACCAGCTCATCGACTTTTACAAGAAGGAAAACA  
TGGGGCTGGTGACCCACCTGCAGTACCCCGTGCCCTGGAGGAGGAGGATGCTATTGATGAGGCTGAGGA  
GGACACTGTAGAAAGTGTGATGTCACCACCTGAGCTGCCTCCCAGAAAACATTCCTATGTCTGCCGGGCC  
AGCGAGGCCAAGGACCTTCTCTTGCAACAGAGAACCCCGAGCCCTGAGGTACCCCGGCTGAGTCTCT  
CCGAGACTGTTTCAGCGTCTACAGAGCATGGATACAGTGGGCTTCCCGAGGAGCACCTGAAAGCCAT  
CCAGGATTATCTGAGCACTCAGCTCCTCCTGGATTCCGACTTTTTGAAGACGGGCTCCAGCAACCTCCCT  
CACCTGAAGAAGCTGATGTCAGTCTGCAAGGAGCTCCATGGGAAGTCAATCAGGACTGCTGCCATCCC  
TGGAGTCTGCAAGGTTGTTTGACCAACAGCTCTCCCAGGCCTTCCGACGACCTCAGTGGCCCGG  
AGAGGCCAGTCCCATCACCATGGTTGCCAACTCAGCCAATTGACAAGTCTGCTGTCTTCCATTGAAGAT  
AAGGTCAAGTCCCTTGCTGCACGAGGGCTCAGAATCTACCAACAGCGCTTCCCTTATCCCTCCGGTACCT  
TTGAGGTGAAGTCAGAGTCCCTGGGCATTCTCAGAAAATGCATCTCAAAGTGGACGTTGAGTCTGGGAA  
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ATTAAGTCCCAGAAGTTTCTAAACAAGTTGGTATTTTGGTGGAGACGGAGAAGGAGAAAATCTGAGGA  
AGGAATATGTTTTGCTGACTCTAAGAAAAGAGAAGGCTTCTGTCAACTCCTGCAGCAGATGAAGAACAA  
GCATTCGAGCAGCCAGAGCCTGACATGATCACCATCTTATTGGCACTTGAACATGGTAATGCACCC  
CCTCCCAAGAAGATCACGTCCTGGTTTCTCCTCAAGGGCAGGGAAAGACACGGGACGACTCTGCTGACT  
ACATCCCCATGACATCTATGTGATTGGACCCAGGAGGATCCCCCTTGGAGAGAAGGAGTGGCTGGAGCT  
ACTCAGGCACTCCCTGCAAGAAGTACCAGCATGACATTTAAAACAGTTGCCATCCACACCTCTGGAAC  
ATTCGCATAGTGGTGCTTCCAAGCCAGAGCATGAGAATCGGATCAGCCATATCTGCACTGACAACGTGA



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AGACAGGCATCGCCAACCCCTGGGAAACAAGGGAGCAGTGGGAGTGTCTTCATGTTCAATGGAACCTC
CTTGGGGTTTCGTCAACAGCCACTTGACTTCTGGAAGTGAAAAAAGCTCAGGAGAAATCAAACTATATG
AACATCTTGGCGTTCTGGCCCTGGGAGACAAGAAGCTAAGCCCATTTAACATCACCCACCGCTTACCC
ACCTCTTCTGGCTTGGGGATCTCAACTACCGCTGGAGCTGCCACTTGGGAGGCAGAGGCCATCATCCA
GAAGATCAAGCAACAGCAGTATTCAGACCTTCTGGCCACGACCAACTGCTCCTGGAGAGGAAGGACCAG
AAGGTCTTCTGCACTTTGAGGAGGAAGAGATCACCTTCGCCCCACCTATCGATTTGAAAGACTGACCC
GGGACAAGTATGCATACCGAAGCAGAAAGCAACAGGGATGAAGTACAACCTTGGCTCCTGGTGGACCG
AGTCCTCTGGAAGTCTTACCCGCTGGTGCATGTGGTCTGTGTCAGTCTATGGCAGTACCAGTGACATCATG
ACGAGTGACCACAGCCCTGTCTTTGCCAGTGTGAAAGCAGGAGTACATCTCAATTCGTCTCCAAGAATG
GTCCTGGCACTGTAGATAGCCAAGGGCAGATCGAGTTTCTTGCATGCTACGCCCACTGAAGACCAAGTC
CCAGACTAAGTTCTACTTGGAGTCCACTCAAGCTGCTTAGAGAGTTTTGTCAAGAGTCAGGAAGGAGAG
AATGAAGAGGGAAGTGAAGGAGAGCTGGTGGTACGGTTTGGAGAGACTTCCCAAGCTAAAGCCCATTA
TCTCTGACCCCGAGTACTTACTGGACCAGCATATCCTGATCAGCATTAAATCCTCTGACAGTGACGAGTC
CTATGGTGAAGGCTGCATTGCCCTTCGCTTGGAGACCACAGAGGCTCAGCATCCTATCTACAGCCCTCTC
ACCCACCATGGGAGATGACTGGCCACTTCAGGGGAGAGATTAAGCTGCAGACCTCCAGGGCAAGATGA
GGGAGAAGCTCTATGACTTTGTGAAGACAGAGCGGGATGAATCCAGTGGAAATGAAATGCTTGAAGAACCT
CACCAGCCATGACCCTATGAGGCAATGGGAGCCTTCTGGCAGGGTCCCTGCATGTGGTGTCTCCAGCCCTC
AATGAGATGATCAATCCAACTACATTGGTATGGGGCCTTTTGGACAGCCCTGCATGGGAAATCAACCC
TGTCCCGAGATCAGCAACTCACAGCTTGGAGTTATGACCAGTACCCAAAGACTCCTCCCTGGGGCCTGG
GAGGGGGGAGGGTCTCCAACCCCTCCCTCCCAACCACCTCTGTGCGCAAAGAAGTTTTTCATCTCCACA
GCCAACCGAGGTCCTGCCCCAGGGTCAAGAGGCAAGACCTGGGGATCTGGGAAAGGTGGAAGCTCTGC
TCCAGGAGGACCTGCTGCTGACGAAGCCCGAGATGTTTGAAGACCACTGTATGGATCCGTGAGTTCCTT
CCCTAAGCTGGTCCAGGAAAGAGCAGGAGTCTCCCAAGATGCTGCGGAAGGAGCCCCGCCCTGTCCA
GACCCAGGAATCTCATCACCCAGCATCGTGTCTCCCAAAGCCCAAGAGGTGGAGAGTGTCAAGGGGACAA
GCAAACAGGCCCTGTGCTGTCTTGGCCCAACCCCGGATCCGCTCCTTTACCTGTTCTTCTCTGCTG
TGAGGGCAGAATGACCAGTGGGACAAGAGCCAAGGGAAGCCCAAGGCCTCAGCCAGTTCCTCAAGCCCCA
GTGCCAGTCAAGAGGCCTGTCAAGCCTTCCAGGTGAGAAATGAGCCAGCAGACAACACCCATCCCAGCTC
CACGGCCACCCCTGCCAGTCAAGAGTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
TGACAACACAGAACTCCCCACCATGGCAAGCACCGCCAAGAGGGGGTGTCTGGCAGGACTGCCATG
CAGTGA
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
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**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_010566

**Insert Size:**

3576 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:** [NM\\_010566.3](#), [NP\\_034696.2](#)

**RefSeq Size:** 4940 bp

**RefSeq ORF:** 3576 bp

**Locus ID:** 16331

**UniProt ID:** [Q9ES52](#)

**Cytogenetics:** 1 44.44 cM

**Gene Summary:** Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3) to produce PtdIns(3,4)P2, thereby negatively regulating the PI3K (phosphoinositide 3-kinase) pathways (By similarity). Able also to hydrolyzes the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P3) and inositol 1,3,4,5-tetrakisphosphate (PubMed:9367159). Acts as a negative regulator of B-cell antigen receptor signaling. Mediates signaling from the FC-gamma-RIIB receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. Acts as a negative regulator of myeloid cell proliferation/survival and chemotaxis, mast cell degranulation, immune cells homeostasis, integrin alpha-IIb/beta-3 signaling in platelets and JNK signaling in B-cells. Regulates proliferation of osteoclast precursors, macrophage programming, phagocytosis and activation and is required for endotoxin tolerance. Involved in the control of cell-cell junctions, CD32a signaling in neutrophils and modulation of EGF-induced phospholipase C activity. Key regulator of neutrophil migration, by governing the formation of the leading edge and polarization required for chemotaxis. Modulates FCGR3/CD16-mediated cytotoxicity in NK cells. Mediates the activin/TGF-beta-induced apoptosis through its Smad-dependent expression.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).