

Product datasheet for MC223682

Inpp5d (NM_001110193) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5d (NM_001110193) 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:	>MC223682 representing NM_001110193 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCCATGGTCCCTGGGTGGAACCATGGCAACATCACCCGCTCCAAGGCAGAGGAGCTACTTTCCA
GAGCCGGCAAGGACGGGAGCTTCTTGTGCGTGCCAGCGAGTCCATCCCCGGGCCTACGACTCTGCGT
GCTGTTCCGGAATTGTGTTTACACTTACAGGATTCTGCCAATGAGGACGATAAAATTCAGTTCAGGCA
TCCGAAGGTGTCCCATGAGGTTCTTACGAAGCTGGACCAGCTCATCGACTTTTACAAGAAGGAAAACA
TGGGGCTGGTGACCCACCTGCAGTACCCCGTGCCCTGGAGGAGGAGGATGCTATTGATGAGGCTGAGGA
GGACACTGTAGAAAGTGTGCATGTACCACCTGAGCTGCCTCCCAGAAACATTCTATGTCTGCCGGGCC
AGCGAGGCCAAGGACCTTCTCTTGCAACAGAGAACCCCGAGCCCTGAGGTACCCCGGCTGAGTCTCT
CCGAGACTGTTTCAGCGTCTACAGAGCATGGATACAGTGGGCTTCCCGAGGAGCACCTGAAAGCCAT
CCAGGATTATCTGAGCACTCAGCTCCTCCTGGATTCCGACTTTTTGAAGACGGGCTCCAGCAACCTCCCT
CACCTGAAGAAGCTGATGTCAGTCTGCAAGGAGCTCCATGGGAAGTCAATCAGGACTGCCATCCC
TGGAGTCTGCGAGAGGTTGTTGACCAACAGCTCTCCCGAGGCTTCCCGCCAGCACCTCAGTGGCCCG
AGAGGCCAGTCCCATCACCATGGTTGCCAACTCAGCCAATTGACAAGTCTGCTGTCTTCCATTGAAGAT
AAGGTCAAGTCCCTGCTGCACGAGGGCTCAGAATCTACCAACAGCGTTCCTTATCCCTCCGGTACCT
TTGAGGTGAAGTCAGAGTCCCTGGGCATTCTCAGAAAATGCATCTCAAAGTGGAGCTTGTGCTGGGAA
ACTGATCGTTAAGAAGTCCAAGGATGGTTCTGAGGACAAGTTCTACAGCCACAAAAAATCTGCAGCTC
ATTAAGTCCCAGAAGTTTCTAAACAAGTTGGTATTTTGGTGGAGACGGAGAAGGAGAAAATCTGAGGA
AGGAATATGTTTTGCTGACTCTAAGAAAAGAGAAGGCTTCTGTCAACTCCTGCAGCAGATGAAGAACA
GCATTCGAGCAGCCAGAGCCTGACATGATCACCATCTTATTGGCACTTGAACATGGTAATGCACCC
CCTCCCAAGAAGATCACGTCCTGGTTTCTCCTCAAGGGCAGGGAAAGACACGGGACGACTCTGCTGACT
ACATCCCCATGACATCTATGTGATTGGACCCAGGAGGATCCCCCTTGGAGAGAAGGAGTGGCTGGAGCT
ACTCAGGCACTCCCTGCAAGAAGTCACCAGCATGACATTTAAAACAGTTGCCATCCACACCTCTGGAAC
ATTCGCATAGTGGTGCTTCCAAGCCAGAGCATGAGAATCGGATCAGCCATATCTGCACTGACAACGTGA



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AGACAGGCATCGCCAACACCCTGGGAAACAAGGGAGCAGTGGGAGTGTCTTCATGTTCAATGGAACCTC
CTTGGGGTTTCGTCAACAGCCACTTGACTTCTGGAAGTGAAGGAGCTCAGGAGAAATCAAACTATATG
AACATCCTGCGGTTCTGGCCCTGGGAGACAAGAAGCTAAGCCATTTAACATCACCCACCGCTTACCC
ACCTCTTCTGGCTTGGGGATCTCAACTACCGCTGGAGCTGCCCACTTGGGAGGCAGAGGCCATCATCCA
GAAGATCAAGCAACAGCAGTATTCAGACCTTCTGGCCACGACCAACTGCTCCTGGAGAGGAAGGACCAG
AAGGTCTTCTGCACTTTGAGGAGGAAGAGATCACCTTCGCCCCACCTATCGATTTGAAAGACTGACCC
GGGACAAGTATGCATACCGAAGCAGAAAGCAACAGGGATGAAGTACAACCTTGGCGTCTGGTGCGACCCG
AGTCCTCTGGAAGTCTTACCCGCTGGTGCATGTGGTCTGTCACTCCTATGGCAGTACCAGTGACATCATG
ACGAGTGACCACAGCCCTGTCTTTGCCAGTGTGAAGCAGGAGTACATCTCAATTCGTCTCCAAGAATG
GTCCTGGCACTGTAGATAGCCAAGGGCAGATCGAGTTTCTTGCATGCTACGCCCACTGAAGACCAAGTC
CCAGACTAAGTTCTACTTGGAGTCCACTCAAGCTGCTTAGAGAGTTTTGTCAAGAGTCAGGAAGGAGAG
AATGAAGAGGGAAGTGAAGGAGAGCTGGTGGTACGGTTTGGAGAGACTTCCCAAGCTAAAGCCCATTA
TCTCTGACCCCGAGTACTTACTGGACCAGCATATCCTGATCAGCATTAAATCCTCTGACAGTGACGAGTC
CTATGGTGAAGGCTGCATTGCCCTTCGCTTGGAGACCACAGGGCTCAGCATCCTATCTACACGCCCTCTC
ACCCACCATGGGAGATGACTGGCCACTTCAGGGGAGAGATTAAGCTGCAGACCTCCAGGGCAAGATGA
GGGAGAAGCTCTATGACTTTGTGAAGACAGAGCGGGATGAATCCAGTGAATGAAATGCTTGAAGAACCT
CACCAGCCATGACCCTATGAGGCAATGGGAGCCTTCTGGCAGGGTCCCTGCATGTGGTGTCTCCAGCCTC
AATGAGATGATCAATCCAAACTACATTGCCAACCGAGGTCCTGCCCCAGGGTGCAAGAGGCAAGACCTG
GGGATCTGGGAAAGGTGGAAGCTCTGCTCCAGGAGGACCTGCTGCTGACGAAGCCCGAGATGTTTGAA
CCCCTGTATGGATCCGTGAGTTCCTCCCTAAGCTGGTGCCAGGAAAGAGCAGGAGTCTCCCAAGATG
CTGCGGAAGGAGCCCCCGCCCTGTCCAGACCCAGGAATTCATCACCCAGCATCGTGCTCCCAAGGCC
AAGAGGTGGAGAGTGTCAAGGGGACAAGCAAACAGGCCCTGTGCCTGTCTTGGCCCCACACCCCGGAT
CCGCTCTTTACCTGTTCTTCTTCTGCTGAGGGCAGAATGACCAGTGGGACAAGAGCCAAGGGAAAGCCC
AAGGCCTCAGCCAGTTCCTCAAGCCCAAGTGCAGTCAAGAGGCCGTCAAGCCTTCCAGGTCAGAAATGA
GCCAGCAGACAACCCATCCCAGCTCCACGGCCACCCCTGCCAGTCAAGAGTCTGCTGTCTGCTGACGT
GCAACATTCCAAAGGCAGAGACTACCGTGACAACACAGAACTCCCCACCATGGCAAGCACCGCCAAGAG
GAGGGGCTGCTTGGCAGGACTGCCATGCAGTGA
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001110193

Insert Size:

3393 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_001110193.2](#), [NP_001103663.1](#)

RefSeq Size: 4757 bp

RefSeq ORF: 3393 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 (3) contains two alternate in-frame exons in the 3' coding region compared to variant 1. The encoded isoform (3) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.