

## Product datasheet for MR211781

### Inpp5d (NM\_001110192) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Inpp5d (NM\_001110192) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Inpp5d  
**Synonyms:** p150Ship; s-SHIP; SHIP; SHIP-1; SHIP1; SIP-145  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR211781 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCTGCCATGGTCCCTGGGTGGAACCATGGCAACATCACCCGCTCCAAGGCAGAGGAGCTACTTTCCA  
 GAGCCGGCAAGGACGGGAGCTTCTTGTGCGTGCCAGCGAGTCCATCCCCGGGCCTACGACTCTGCGT  
 GCTGTTCCGGAATTGTGTTTACACTTACAGGATTCTGCCAATGAGGACGATAAATTCAGTTCAGGCA  
 TCCGAAGGTGTCATGAGGTTCTTACGAAGCTGGACCAGCTCATCGACTTTTACAAGAAGGAAAACA  
 TGGGGCTGGTGACCCACCTGCAGTACCCGCTGCCCTGGAGGAGGAGGATGCTATTGATGAGGCTGAGGA  
 GGACACTGAAAGTGCATGTACCACCTGAGTGCCTCCAGAAAACATTCTATGTCTGCCGGGCCAGC  
 GAGGCCAAGGACCTTCTCTTGCAACAGAGAACCCCGAGCCCTGAGGTACCCGGCTGAGTCTCTCCG  
 AGACACTGTTTACAGCGTCTACAGAGCATGGATACCAAGTGGGCTTCCCGAGGAGCACCTGAAAGCCATCCA  
 GGATTATCTGAGCACTCAGCTCCTCCTGGATTCCGACTTTTTGAAGACGGGCTCCAGCAACCTCCCTCAC  
 CTGAAGAAGCTGATGTCAGTCTGCTGCAAGGAGCTCCATGGGGAAGTCATCAGGACTCTGCCATCCCTGG  
 AGTCTCTGCAGAGGTTGTTTGACCAACAGCTCTCCCCAGGCTTCGCCCACGACCTCAGGTGCCCGGAGA  
 GGCCAGTCCCATACCATGGTTGCCAACTCAGCAATTGACAAGTCTGCTGTCTTCCATTGAAGATAAG  
 GTCAAGTCTTGGTGCACGAGGGCTCAGAATCTACCAACAGGCGTTCCTTATCCCTCCGCTCACCTTTG  
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 AAGTCCCAGAAGTTCTAAACAAGTTGGTGATTTTGGTGGAGACGGAGAAGGAGAAAAATCCTGAGGAAGG  
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 TCCCCATGACATCTATGTGATTGGCACCCAGGAGGATCCCTTGGAGAGAAGGAGTGGCTGGAGCTACT  
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CGCATAGTGGTGCTTGCCAAGCCAGAGCATGAGAATCGGATCAGCCATATCTGCACTGACAACGTGAAGA  
 CAGGCATCGCCAACACCCTGGGAAACAAGGGAGCAGTGGGAGTGTCTTCATGTTCAATGGAACCTCCTT  
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 TCTTCTGGCTTGGGGATCTAACTACCGCTGGAGCTGCCACTTGGGAGGCAGAGGCCATCATCCAGAA  
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 AGAAGCTCTATGACTTTGTGAAGACAGAGCGGGATGAATCCAGTGAATGAAATGCTTGAAGAACCTCAC  
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 GAGATGATCAATCCAACTACATTGGTATGGGGCCTTTTGACAGCCCTGCATGGGAAATCAACCTGT  
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 GGCCACCCCTGCCAGTCAAGAGTCTGCTGCTCCTGCAGCTGCAACATTCCAAGGCAGAGACTACCGTGA  
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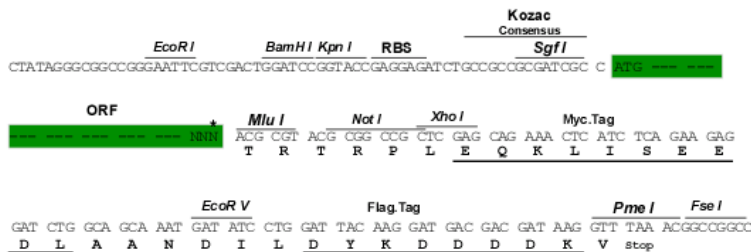
Protein Sequence: >MR211781 protein sequence  
 Red=Cloning site Green=Tags(s)

MPAMVPGWNHGNITRSKAEELLSRAGKDGSLVRASESIPRAYALCVLFRNCVYTYRILPNEDDKFTVQA  
 SEGVPMRFFTKLDQLIDFYKKENMGLVTHLQYPVPLEEEDAIDEAEDTESVMSPPELPPRNIPMSAGPS  
 EAKDLPLATENPRAPEVTRLSLSETLFQRLQSMDSGLPEEHLKAIQDYLSLQLLLDSDFLKTGSSNLPH  
 LKKLMSLLCKELHGEVIRTLPSLESQRLFDQQLSPGLRPRPQVPGEASPIITMVAKLSQLTSLSSIEDK  
 VKSLLHEGSESTNRRSLIPPVTFEVKSESLGIPQKMLKVDVESGKLIKKSKDGEDKFYSHKKILQLI  
 KSQKFLNKLIVILVETEKEKILRKEYVFADSKKREGFCQLLQQMKNKHSEQPEPDMITIFIGTWNMGNAPP  
 PKKITSWFLSKGQKTRDSDADYIPHDIYVIGTQEDPLGEKEWLELLRHSLQEVTSMFTKVAIHTLWNI  
 RIVVLAKPEHENRISHICTDNVKTGIANTLGNKGAVGVSMFNGTSLGFVNSHLTSGSEKLRNQNMYN  
 ILRFLALGDKKLSPFNITHRFTHLFWLGDLYRVELPTWEAEAIQKIKQQQYSDLLAHDQLLLERKDQK  
 VFLHFEIEEITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPVHVVCQSYGSTSDIMT  
 SDHSPVFATFEAGVTSQFVSKNGPGTVDSQGIIEFLACYATLTKTSQTKFYLEFHSSCLESFVKSQEGEN  
 EEGSEGELVVRFGETLPKPKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLETTEAQHPITYPLT  
 HHGEMTGHFRGEIKLQTSQGMREKLYDFVKTERDESSGMKCLKNLTSHDPMRQWEPSSGRVPACGVSSLN  
 EMINPNYIGMPPFGQPLHGKSTLSPDQQLTAWSYDQLPKDSSLGPGRGEPPTPPSQPPLSPKFFSSTA  
 NRGPCPRVQEARPGDLGKVEALLQEDLLLTKPEMFENPLYGVSVSFPKLVPRKEQESPKMLRKEPPPCPD  
 PGISSPSIVLPAQEVEVSKGTSKQAPVPVLPPTPRIRSFCSSSAEGRMTSGDKSQGPKKASASSQAPV  
 PVKRPVKPSRSEMSQQTTPIPAPRPPLPVKSPAVLQLQHSKGRDYRDNTELPHHGKHRQEELGLGRTAMQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI  
 Cloning Scheme:

Cloning sites used for ORF Shuttling:

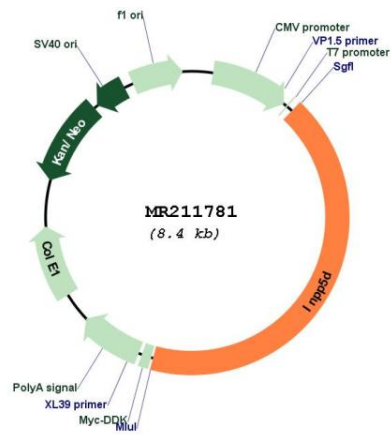


\* The last codon before the Stop codon of the ORF

ACCN: NM\_001110192  
 ORF Size: 3570 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001110192.2</a> , <a href="#">NP_001103662.1</a>
<b>RefSeq Size:</b>	4937 bp
<b>RefSeq ORF:</b>	3573 bp
<b>Locus ID:</b>	16331
<b>UniProt ID:</b>	<a href="#">Q9ES52</a>
<b>Cytogenetics:</b>	1 44.44 cM
<b>MW:</b>	133.4 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211781