

Product datasheet for MR226131

Inpp5d (NM_001110193) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5d (NM_001110193) 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:	>MR226131 representing NM_001110193 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCCATGGTCCCTGGGTGGAACCATGGCAACATCACCCGCTCCAAGGCAGAGGAGCTACTTTCCA
GAGCCGGCAAGGACGGGAGCTTCCCTGTGCGTGCCAGCGAGTCCATCCCCGGGCCTACGACTCTGCGT
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TCCGAAGGTGTCATGAGGTTCTTACGAAGCTGGACCAGCTCATCGACTTTTACAAGAAGGAAAACA
TGGGGCTGGTGACCCACCTGCAGTACCCGTCGCCCTGGAGGAGGAGGATGCTATTGATGAGGCTGAGGA
GGACACTGTAGAAAGTGTATGTACCACCTGAGCTGCCTCCCAGAAACATTCCTATGTCTGCCGGGCC
AGCGAGGCCAAGGACCTTCTCTTGCAACAGAGAACCCCCGAGCCCTGAGGTACCCCGGCTGAGTCTCT
CCGAGACTGTTTCAGCGTCTACAGAGCATGGATACCAAGTGGGCTTCCCAGGAGCACCTGAAAGCCAT
CCAGGATTATCTGAGCACTCAGCTCCTCCTGGATTCCGACTTTTTGAAGACGGGCTCCAGCAACCTCCCT
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TGGAGTCTCTGCAGAGGTTGTTTGACCAACAGCTCTCCCAGGCCTTCCGCCACGACCTCAGGTGCCCGG
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ATTCGCATAGTGGTGCTTGCCAAGCCAGAGCATGAGAATCGGATCAGCCATATCTGCACTGACAACGTGA
AGACAGGCATCGCCAACACCCTGGGAAACAAGGGAGCAGTGGGAGTGTCTTCATGTTCAATGGAACCTC
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ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226131 representing NM_001110193
 Red=Cloning site Green=Tags(s)

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MPAMVPGWNHGNI TRSKAEELLSRAGKDG SFLVRASEIPRAYALCVLFRNCVYTYRILPNEDDKFTVQA
SEGVPMRFFTKLDQLIDFYKKENMGLVTHLQYPVPLEEEDAIDEAEEDTVESVMSPPPEPRNIPMSAGP
SEAKDLPLATENPRAPEVTRL S LSETL FQRLQ SMDT SGLPEEHLKAIQDY LSTQ LLLSDFLKTGSSNLP
HLK KLM SLLCKELHGEVIRTLPSLESLQRLFDQQLSPGLRPRPQVPGEASPI TMVAKLSQLT SLLSSIED
KVK SLLHEGSESTNRRSLIPPVTFEVKSESLGIPOQMHLKVDVESGKLI VKKSKDGEDKFYSHKKILQL
IKSQKFLNKLVLIVETEKEKILRKEYVFA DSKKREGFCQLLQ QMKNKHSEQPEPDMITIFIGTWNMGNAP
PPKITSWFLSKGQKTRDSDADYIPHD IYVIGTQEDPLGEKEWLELLRHSLQEVTSMTFKTVAIHTLWN
IRIVVLAKPEHENRISHICTDNVKTG IANTLGNKGAVGV S FMNGTSLGFVNSHLTSGSEKLR RNQNYM
NILRFLALGDKKLS PFNITHRFTHLFWLGD LNYRVELPTWEAEAI IQKIKQQYSDLLAHDQLLLERKDQ
KVFLHFEEEEITFAPTYR FERL TRDKYAYTKQKATGMKYNLPSWCDRVLWKS YPLVHVVCQSYGSTDIM
TSDHSPVFATFEAGVTSQFVSKNGP GTVDSQGGIEFLACYATLTKSQT KFYLFHSSCLESFVKSQEGE
NEEGSEGELVVRFGETLPKLPKPI ISDPEYLLDQHILISIKSSDSDESYGEGC IALRLETTEA QHP IYTPL
THHGEMTG HFRGEIKLQTSQGKMREKLYDFVKTERDESSGMKCLKNLT SHDPMRQWEP SGRVPACGVSSL
NEMINPNYIANRGP C PRVQEARPGDLGKVEALLQEDLLLTKPEMFENPL YGSVSSFPKLVPRKEQESPKM
LRKEPPPCDPGISSPSIVLPKAEV ESVKGT SKQAPVPVLGPTPRIRSFTCSSSAEGRMTSGDKS QGPKP
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EGLLGRTAMQ
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1837_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001110193

ORF Size: 3390 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: 4755 bp

RefSeq ORF: 3393 bp

Locus ID: 16331

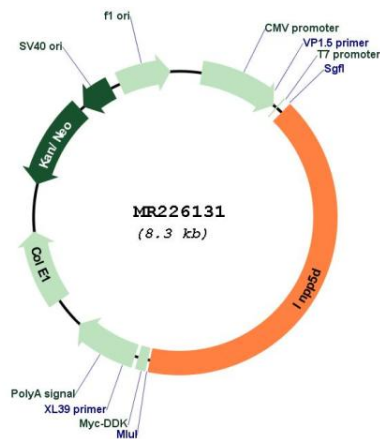
UniProt ID: [Q9ES52](#)

Cytogenetics: 1 44.44 cM

MW: 127.6 kDa

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]

Product images:

Circular map for MR226131