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Product datasheet for SC213169

SHIP (INPP5D) (NM_005541) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	SHIP (INPP5D) (NM_005541) Human 3' UTR Clone
Symbol:	SHIP
Synonyms:	hp51CN; p150Ship; SHIP; SHIP-1; SHIP1; SIP-145
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_005541
Insert Size:	1225 bp

Insert Sequence:

>SC213169 3'UTR clone of NM_005541
The sequence shown below is from the reference sequence of NM_005541. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGGCCTCTAGGCAGGACTGCCATGCAGTGAAGCCCTCAGTGAGCTGCCACTGAGTCGGGAGCCCAGAGG
AACGGCGTGAAGCCACTGGACCCTCTCCCGGGACCTCCTGCTGGCTCCTCCTGCCCAGCTTCCTATGCA
AGGCTTTGTGTTTTCAGGAAAGGGCCTAGCTTCTGTGTGGCCCACAGAGTTCACTGCCTGTGAGACTTA
GCACCAAGTGCTGAGGCTGGAAGAAAAACGCACACCAGACGGGCAACAAACAGTCTGGGTCCCCAGCTC
GCTCTTGGTACTTGGGACCCCAGTGCCTCGTTGAGGGCGCCATTCTGAAGAAAGGAACTGCAGCGCCGA
TTTGAGGGTGGAGATATAGATAATAATAATATTAATAATAATAATGGCCACATGGATCGAACACTCATG
ATGTGCCAAGTGCTGTGCTAAGTGCTTTACGAACATTCGTCATATCAGGATGACCTCGAGAGCTGAGGC
TCTAGCCACCTAAAACCACGTGCCCAAACCCACCAGTTTAAAACGGTGTGTGTTCGGAGGGGTGAAAGC
ATTAAGAAGCCCAGTGCCCTCCTGGAGTGAGACAAGGGCTCGGCCTTAAGGAGCTGAAGAGTCTGGGTA
GCTTGTTTAGGGTACAAGAAGCCTGTTCTGTCCAGCTTCAGTGACACAAGCTGCTTTAGCTAAAGTCCC
GCGGGTTCCGGCATGGCTAGGCTGAGAGCAGGGATCTACCTGGCTTCTCAGTTCTTTGGTTGGAAGGAG
CAGGAAATCAGCTCCTATTCTCCAGTGGAGAGATCTGGCCTCAGCTTGGGCTAGAGATGCCAAGGCCTG
TGCCAGGTTCCCTGTGCCCTCCTCGAGGTGGGCAGCCATCACCAGCCACAGTTAAGCCAAGCCCCCCAA
CATGTATTCCATCGTGCTGGTAGAAGAGTCTTTGCTGTTGCTCCCGAAAGCCGTGCTCTCCAGCCTGGC
TGCCAGGGAGGGTGGGCCTCTTGGTTCCAGGCTCTTGAAATAGTGCAGCCTTTTCTTCCTATCTCTGTG
GCTTTCAGCTCTGCTTCCTTGGTTATTAGGAGAATAGATGGGTGATGTCTTTCCTTATGTTGCTTTTTC
AACATAGCAGAATTAATGTAGGGAGCTAAATCCAGTGGTGTGTGTGAATGCAGAAGGGAATGCACCCCA
CATTCCCATGATGGAAGTCTGCGTAACCAATAAATTGTGCCTTTCTCACTCA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

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Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_005541.5
Summary:	This gene is a member of the inositol polyphosphate-5-phosphatase (INPP5) family and encodes a protein with an N-terminal SH2 domain, an inositol phosphatase domain, and two C-terminal protein interaction domains. Expression of this protein is restricted to hematopoietic cells where its movement from the cytosol to the plasma membrane is mediated by tyrosine phosphorylation. At the plasma membrane, the protein hydrolyzes the 5' phosphate from phosphatidylinositol (3,4,5)-trisphosphate and inositol-1,3,4,5-tetrakisphosphate, thereby affecting multiple signaling pathways. The protein is also partly localized to the nucleus, where it may be involved in nuclear inositol phosphate signaling processes. Overall, the protein functions as a negative regulator of myeloid cell proliferation and survival. Mutations in this gene are associated with defects and cancers of the immune system. Deficiencies in the encoded protein, SHIP1, have been associated with Inflammatory Bowel Disease types such as Crohn's Disease and Ulcerative Colitis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2020]
Locus ID:	3635
MW:	44.5