

Product datasheet for **SC302068**

SHIP (INPP5D) (NM_001017915) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SHIP (INPP5D) (NM_001017915) Human Untagged Clone
Tag: Tag Free
Symbol: INPP5D
Synonyms: hp51CN; p150Ship; SHIP; SHIP-1; SHIP1; SIP-145
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001017915, the custom clone sequence may differ by one or more nucleotides

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ATGGTCCCCTGCTGGAACCATGGCAACATCACCCGCTCCAAGGCGGAGGAGCTGCTTTCC
AGGACAGGCAAGGACGGGAGCTTCTCGTGCGTGCCAGCGAGTCCATCTCCCGGGCATA
GCGCTCTGCGTGTATCGGAATTGCGTTTACTTACAGAAATTCTGCCCAATGAAGAT
GATAAATTCACTGTTCAAGCATCCGAAGGCGTCTCCATGAGGTTCTTACCAAGCTGGAC
CAGCTCATCGAGTTTTACAAGAAGGAAAACATGGGGCTGGTGACCCATCTGCAATACCT
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CTTAAGGCCATCCAAGATTATTTAAGCACTCAGCTCGCCAGGACTCTGAATTTGTGAAG
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TATGGAGAAGTCATCCGGACCCTCCATCCCTGGAGTCTCTGCAGAGGTTATTTGACCAG
CAGCTCTCCCGGGCCTCCGTCCACGTCTCAGGTTCTGGTGGGCCAATCCCATCAAC
ATGGTGTCCAAGCTCAGCAACTGACAAGCCTGTTGTATCCATTGAAGACAAGGTCAAG
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CACCTCTTCTGGTTTGGGGATCTTAACCTACCGTGTGGATCTGCCTACCTGGGAGGCAGAA
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CCGCCGCTGCCAGTCAAGAGCCCGGGTGTGACCTCCAGCACTCCAAGGGCCCGGAC
TACCGCGACAACCCGAGTCCCGCATCACGGCAAGCACCGGCCGAGGAGGGGCCACCA
GGGCTCTAGGCAGGACTGCCATGCAGTGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001017915
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001017915.1](#), [NP_001017915.1](#)

RefSeq Size: 4928 bp

RefSeq ORF: 3570 bp

Locus ID: 3635

UniProt ID: [Q92835](#)

Cytogenetics: 2q37.1

Protein Families: Druggable Genome

Protein Pathways: B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Insulin signaling pathway, Phosphatidylinositol signaling system

Gene 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).