

Product datasheet for **SC323870**

INPP5E (NM_019892) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INPP5E (NM_019892) Human Untagged Clone
Tag:	Tag Free
Symbol:	INPP5E
Synonyms:	CORS1; CPD4; JBTS1; MORMS; pharbin; PPI5PIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_019892.3
 CTGGGCGCCGGCCTCCGCGAGTACCGGGTCGACTTCGGAGTCTGCGAGCCAGCCAGG
 GGTGCCCGCTTCCACCCTCTCCCCAGCGCGTCCCCGTCGGGGTCGAACCTCCCCCG
 CGACAGGCGCCAGCCGCTGTTCCCCAGGCCTTGCCTGCGGACCGCCCTGGGAACGGC
 GTCTGGGAGCCCCGAGGGCTGGCGGGACTCGGGGCCCGGCCATGCGGCAGCCGCCCC
 GCCCTCCGCGACCATCCCCGGCCAAGCGGGAGCCGAGCGGCCTTCTGCTCCTCGCT
 GCGCCGGCAGCCCGACCCGGCACCCGTGACCCCTCGCGCTGCCTGCGGCCTCGCGCCG
 AGGCTGCCCCGGGAGAGACCGTCCATGCCGTCCAAGGCGGAGAATCTGCGGCCCTCCGA
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 GGCCAGCGCGCGGGTCCCCACCCGATGCTCCGGGCTCCGAGAGCCCCGCGCTTGCCTG
 CAGCACTCCGGCCACGCCAGCGCGAGGACCCGCCAGCCGAGCAGCACCCATCGCCCC
 GCGGCCCCCGCCAGGCTCGACTGGAGCGAGCCCTGTCCTGGACGACAAGGGCTGGAG
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 CAGGGGCTCAGTGCAGAGCGAGGGCCCCGGGGCCCCGCCACAGCTGCTCCCCGCCCTG
 CCTGAGCACCTCCTTGCAGGAAATCCCCAAGTCCCAGCGGGTCTGAGCAGTGCAGAGG
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 CAGCCTGGGCCCCGCGCCGCGGAGCCCTGGCCTGCGACGACTGTTCCCTTCGCTC
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 TTACCTGGAGGGCAGCCTCCTGGCCAGCGGGGCCCTGTTGGGGCGGATGAGCTGGCCCCG
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 CCTGTATGTCATCGGGTCCAGGAGGGCTGTTCTGACAGGCGGGAGTGGGAGACTCGTCT
 GCAGGAGACGCTGGGCCCGCACTATGTGCTGCTGCTCCTCGGCGGCCACGGCGTGTCTA
 CATGTCGCTTTCATCCGAGGGACCTCATCTGTTCTGCTCAGAGGTGGAGTGTCCAC



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GGTGACCACACGCATCGTGTCTCAGATCAAGACCAAGGGGGCCTTGGGCATCAGCTTCAC
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TAGTGGAACCGGGCTAGGGAAGTCTGGAAGTTCCAGGATGCCACCACCTTGAACACCTAG
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ATATTGAGTCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** ECoRI-NOT
- ACCN:** NM_019892
- 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_019892.3](#), [NP_063945.2](#)

RefSeq Size: 3440 bp

RefSeq ORF: 1935 bp

Locus ID: 56623

UniProt ID: [Q9NRR6](#)

Cytogenetics: 9q34.3

Protein Families: Druggable Genome

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Gene Summary: The protein encoded by this gene is an inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase. InsP3 5-phosphatases hydrolyze Ins(1,4,5)P3, which mobilizes intracellular calcium and acts as a second messenger mediating cell responses to various stimulation. Studies of the mouse counterpart suggest that this protein may hydrolyze phosphatidylinositol 3,4,5-trisphosphate and phosphatidylinositol 3,5-bisphosphate on the cytoplasmic Golgi membrane and thereby regulate Golgi-vesicular trafficking. Mutations in this gene cause Joubert syndrome; a clinically and genetically heterogeneous group of disorders characterized by midbrain-hindbrain malformation and various associated ciliopathies that include retinal dystrophy, nephronophthisis, liver fibrosis and polydactyly. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).