

## Product datasheet for **RC238706**

### **INPP5F (NM\_001243194) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	INPP5F (NM_001243194) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	INPP5F
Synonyms:	hSAC2; MSTP007; MSTPO47; SAC2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC238706 representing NM\_001243194  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTGTCATGACGTAATTTTTATGGCTTGCTCAAGCAACAATTTTCAGAGTGCACCCTCATTGATGCTA  
CTCACAGAGACGTGGATGTGCTGTTACTGCTTTCTAACTCGCCTACTAGTGGCCTATTATGATGATGA  
AGTTGATAAAGTAAACCAGTATCAACGACTAAGCTAGAAAAACCTGAAAAAATTGAAATAGGCCCTGAA  
CCCCTCTTTTTGGTAAGCCAAAGTTCTCCTGCATGCGACTGCACTACAGATACAAAAGAAGCGAGTGGCT  
ATTTCCACACATTGCGAGCTGTAATGCGTAATCCTGAAGAGGATGGAAAAGATACCCTTCAGTGCATTGC  
AGAGATGCTGCAGATCACCAAGCAAGCCATGGGATCGGATTTACCATAATTGAGAAGAACTTGAGAGG  
AAGAGCAGTAAACCTCACGAAGACATCATTGGTATCAGGTCTCAAACCAAGTTCTTTGGCCAGGGAA  
AGAATTTTTAATGAGCAAATTTTCATCTCTAAATCAAAAAGTGAAGCAGACCAATCCAATGTAATAT  
TGGCAACCTCCGAAAGCTAGGAACTTTACCAACCTGAAATGAAAGTTAACTTTCTAAAACCAAACTTA  
AAAGTAAATCTTTGGAATCAGATAGTAGTCTTGAACCTATGAAAAACACAGGAGTATGGATAAGGTTT  
AGGCAGAGTCTGATGGGGACATGTCTTCAGATAATGACTCATACCACTCTGATGAATTCCTTACAAATTC  
TAAGTCTGATGAAGACAGGCAGCTAGCTAACTCATTAGAGAGTGTAGGGCCAATAGATTACGTTCTTCT  
AGTTGTGGTATTATTGCCTCAGCGCCTCGATTGGGCAGTCCGTCCTTAGCAGCACAGATAGTA  
GCGTTCATGCTCCTTCAGAGATTACTGTTGCTCATGGGAGTGGGCTTGGAAAAGGCCAGGAGTCTCCTTT  
GAAGAAAAGTCTTCTGCTGGCGACGTACACATATTGACTGGCTTTGCCAAGCCTATGGATTTTACTGC  
CACAGATTTGTCAAGATGCACAGAACAAGTGACCCACCTATCAGAGACCAGATCTGTGTCTCAGCAGG  
CTAGTCAGGAAAGAAAATCAAATGACCAATCAAGTTTCAAATGAAACCAATCAGAATCAACAGAACAGAC  
ACCTTCTCGGCCATCGCAATTAGATGTCTCTTCTGCAACAGGCCACAGTTTTTGTGAGTTGAGCCA  
GCGCATTGAGTTGCATCTCAAAAAACCCACCTCCGCTTCCAGCATGCTTGAACCTGAGACAGGGCTTC  
ATGTAACCTCCTTCTCCTTCAGAGAGCAGTAGCAGCAGAGCAGTCTCTCCCTTTGCCAAGATTGAAAGTTC  
CATGGTCCAGGTTGCTAGTATTACCAAGCTGGATTAACCCATGGGATAAACTTTGCAGTGTCAAAGTT  
CAGAAGAGTCTCCAGAACCTGAAATCATTAAATCAAGTCCAGCAAAATGAACTTAAAAAGATGTTTATAC  
AATGCCAGACACGGATAATTCAGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>RC238706 representing NM\_001243194  
Red=Cloning site Green=Tags(s)

MCHDVIFMAWLKQQFSECTLIDATHRDVDVLLLLSNSAYYVAYYDDEVKVNQYQRLSLENLEKIEIGPE  
PTLFGKPKFSCMRLHYRYKEASGYFHLLRAVMRNPEEDGKDTLQCIAEMLQITKQAMGSDLPIIEKKLER  
KSSKPHEDIIGIRSNQNGSLAQGKNFLMSKFSSLNQKVKQTKSNVNIIGNLRKLGNTKPEMKVNFLLKPNL  
KVNLWKSDDSSLETMENTGVMDKVQAE SDGMSSDND SYHSDFL TNSKSDEDRQLANSLESVGPIDYVLP  
SCGIIASAPRLGSRSQLSSTDSSVHAPSEITVAHGSLGKGQESPLKKSPPSAGDVHILTFGAKPMDIYC  
HRFVQDAQNKVTHLSETRSVSQASQERNQMTNQVSNETQSESTEQTSPSRPSQLDVSLSATGPQFLSVEP  
AHSVASQKTPTSASSMLELETGLHVTPSPSESSSSRAVSPFAKIRSSMVQVASITQAGLTHGINFAVSKV  
QKSPPEPEIINQVQNELKMF IQCQTRIIQI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

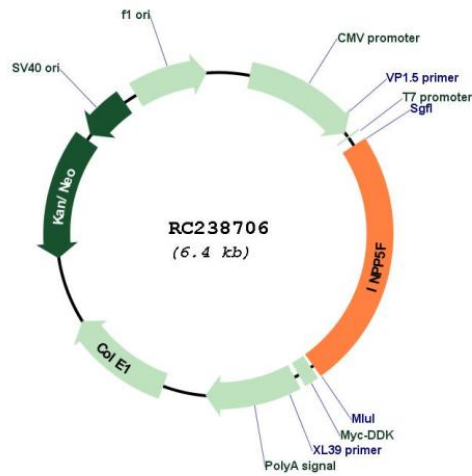
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**


<b>ACCN:</b>	NM_001243194
<b>ORF Size:</b>	1566 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_001243194.1</a> , <a href="#">NP_001230123.1</a>
<b>RefSeq Size:</b>	3167 bp
<b>RefSeq ORF:</b>	1569 bp
<b>Locus ID:</b>	22876
<b>UniProt ID:</b>	<a href="#">Q9Y2H2</a>
<b>Cytogenetics:</b>	10q26.11
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	58.3 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is an inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase and contains a Sac domain. The activity of this protein is specific for phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]