

## Product datasheet for **RG238706**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	INPP5F (NM_001243194) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INPP5F
Synonyms:	hSAC2; MSTP007; MSTPO47; SAC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238706 representing NM\_001243194.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGTCATGACGTAATTTTTATGGCTTGGCTCAAGCAACAATTTTCAGAGTGCACCCTCATTGATGCT
ACTCACAGAGACGTGGATGTGCTTACTGCTTTCTAACTCTGCCTACTACGTGGCCTATTATGATGAT
GAAGTTGATAAAGTAAACAGTATCAACGACTAAGTCTAGAAAACCTGGAAAAAATTGAAATAGGCCT
GAACCCACTCTTTTTGGTAAAGCCAAAGTTCTCCTGCATGCGACTGCACTACAGATACAAAGAAGCGAGT
GGCTATTTCCACACATTGCGAGCTGTAATGCGTAATCCTGAAGAGGATGGAAAAGATACCCTTCAGTGC
ATTGCAGAGATGCTGCAGATCACCAAGCAAGCCATGGGATCGGATTTACCATAATTGAGAAGAACTT
GAGAGGAAGAGCAGTAAACCTCACGAAGACATCATTGGTATCAGGTCTCAAACCAAGGTTCTTTGGCC
CAGGGAAAAGAAATTTTTAATGAGCAAATTTTCATCTCTAAATCAAAAAGTGAAGCAGACCAAATCCAAT
GTAATATTGGCAACCTCCGAAAGCTAGGAACTTTACCAAACCTGAAATGAAAGTTAATTTCTAAAA
CCAAACTTAAAAGTAAATCTTTGAAAATCAGATAGTAGTCTTGAACCTATGGAAAACACAGGAGTGATG
GATAAGGTTCAGGCAGAGTCTGATGGGGACATGTCTTCAGATAATGACTCATACCACTCTGATGAATTC
CTTACAAATTCTAAGTCTGATGAAGACAGGCAGCTAGCTAACTCATTAGAGAGTGTAGGGCCAATAGAT
TACGTTCTTCTAGTTGTGGTATTATTGCCTCAGCGCCTCGATTGGGCAGTCCGTCACAGTCTCTTAGC
AGCACAGATAGTAGCGTTCATGCTCCTTCAGAGATTACTGTTGCTCATGGGAGTGGGCTTGGAAAAGGC
CAGGAGTCTCCTTTGAAGAAAAGTCTTCTGCTGGCGACGTACACATATTGACTGGCTTTGCCAAGCCT
ATGGATATTTACTGCCACAGATTTGTGCAAGATGCACAGAACAAGTGACCCACCTATCAGAGACCAGA
TCTGTGCTCAGCAGGCTAGTCAGGAAAGAAATCAAATGACCAATCAAGTTTCAAATGAAACCCCAATCA
GAATCAACAGAACAGACACCTTCTCGGCCATCGCAATTAGATGTCTCTCTTTCTGCAACAGGCCACAG
TTTTTGTCAAGTTGAGCCAGCGCATTGAGTTGCATCTCAAAAACCCCACTCCGCTTCCAGCATGCTT
GAAGTTGAGACAGGGCTTCATGTAACCTCTTCTCCTTCAGAGAGCAGTAGCAGCAGAGCAGTCTCTCCC
TTTGCCAAGATTCGAAGTTCCATGGTCCAGGTTGCTAGTATTACCAAGCTGGATTAACCATGGGATA
AACTTTGAGTGTCAAAGTTCCAGAAGAGTCTCCAGAACCTGAAATCATTAAATCAAGTCCAGCAAAAT
GAAGTTAAAAGATGTTTATAAATGCCAGACACGGATAATTCAGATT
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238706  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MCHDVIFMAWLKQQFSECTLIDATHRDVDVLLLLSNSAYYVAYYDDEVKVNQYQRLSLENLEKIEIGP
EPTLFGPKPFSCMRLHYRYKEASGYFHTLRAVMRNPEEDGKDTLQCIAEMLQITKQAMGSDLPIIEKKL
ERKSSKPHEDIIGIRSNQNGSLAQGNFLMSKFSNLNQKVKQTKSNVIGNLRLKGNFTKPEMKVNFLK
PNLKVNLWKSDDSLETMENTGVMDKVQAESDGMSSDNDSYHSDEFLNSKSDEDRQLANSLESVGPID
YVLPSCGIIASAPRLGSRSQLSSTDSSVHAPSEITVAHGSLGKGQESPLKSPSAGDVHILTGFAPK
MDIYCHRFVQDAQNKVTHLSETRSVSQASQERNQMTNQVSNETQSESTEQTPSRPSQLDVSLSATGPQ
FLSVEPAHSVASQKTPTSASSMLELETGLHVTPSPSESSSRVSPFAKIRSSMVQVASITQAGLTHGI
NFVSKVQKSPPEPEIINQVQQNELKMF IQCQTRIIQI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

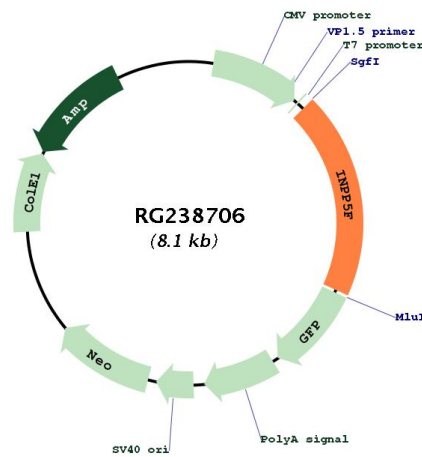
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



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>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]