

## Product datasheet for **RC239180**

### **PIB5PA (INPP5J) (NM\_001284289) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PIB5PA (INPP5J) (NM_001284289) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	INPP5J
Synonyms:	INPP5; PIB5PA; PIPP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC239180 representing NM\_001284289  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCCCTCCAAGGCTTGGCACACAGAGTACAGGGCCTGGCAGGTGCCTGAGCCCCAACCTTCAGGCC  
AAGAAGCCCCAGCCCCAGTCACCACCTCCTCTTACATCCACCCTGTATCCTCCCTTGGTCAGCTCA  
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CCAGACGATGTCACATCCCTCCTCCACCTGGGCGGTGGTGACGACAGCGACGGCGCAGACATGATCGCCA  
TAGGGTTGCAGGAAGTGAACCTCATGCTCAACAAGCGACTCAAGGACGCCCTTTCACGGACAGTGGAG  
TGAGCTGTTTATGGATGCGCTAGGGCCCTCAACTTCGTGCTGGTGGTTCGGTGAGGATGCAGGGTGT  
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CTGGCCTGGGCGGCTACTGGGGTACAAGGGTGGCGTGAGCGTGCCTGGCGCCTTGGGCGACATGCT  
CTGCTTCTGAACTGCCACTTGCCTGCGCATATGGACAAGGCGGAGCAGCGCAAAGACAACCTCCAGACC  
ATCCTCAGCCTCAGCAGTTCGAAGGGCCGGGCGCACAGGGCATCCTGGATCATGACCTCGTGTCTGGT  
TCGGGGACCTGAACTTCCGCATTGAGAGCTATGACCTGCACTTTGTCAAGTTGGCATCGACAGTACCA  
GCTCCATCAGCTCTGGGAGAAGGACCAGCTCAACATGGCCAAGAACACCTGGCCATTCTGAAGGGCTTT  
CAGGAGGGGCCCTCAACTTCGCTCCCACCTTCAAGTTTGTGTTGGTACCAACAATACGATACCAGTG  
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CCCCTCAGGACGGAAGAGCCACCGACTCCAGGTGACGCAGCACAGCTACCGCAGCCACATGGAATACACA  
GTCAGCGACCAACAAGCCTGTGGCTGCCAGTTCCTCCTGCAGTTTGCCTTCAGGGACGACATGCCACTGG  
TGGCGCTGGAGGTGGCAGATGAGTGGGTGCGGCCGAGCAGGCGGTGGTGGTACCACATGGAACAGT  
GTTCCGCCGAGCTCCTGGGACTGGATCGGCTTATACCGGGTGGGTTTCCGCCATTGCAAGGACTATGTG  
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TCAGAGGGAGAGGATGACAGCACACTGGAGCTCCTTGACCCAAAGTCCCGCAGCCCCAGTCTGGCAAGT  
CCAAGCGACACCGCAGCCGAGCCCGGACTGGCCAGGTTCCCTGGGCTTGCCTACGGCCCTCATCCCG  
TGAACGCCGTGGTCCAGCCGTAGCCCCACCCAGAGCCGCCCTGTCCCGAGTGGCTCCTGACAGG  
AGCAGTAATGGCAGCAGCCGGGAGTAGTGAAGAGGGGCCCTCTGGGTTGCCTGGCCCCGGGCCCTTCC  
CACCAGCTGTGCCTCGAAGCCTGGGCTGTGGCCGCCTTGGCCCTAGAGACTGTAGACCTGGTGGTGG  
TGCTCCTGGGGACCTGATCGGGAGGCCCTGGCGCCAAACAGCCTGTCTCCTAGTCCCAGGGCCATCGG  
GGGCTGGAGGAAGGGGCTGGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >RC239180 representing NM\_001284289  
 Red=Cloning site Green=Tags(s)

MALPRLGTQSTGPRCLSPNLQAQEAPAVTTSSSTLSSSPWSAQPTWKSDFRITVVTWNVGTAMP  
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 ILLLFAYYHLPLRDVQTDCTRTGLGGYWGNGGGVSVRLAAFGHMLCFLNCHLPAHMDKAEQRKDNFQT  
 ILSLQQFQGPQAQIGLDHDLVFWFGDLNFRIESYDLHFVKFAIDSDQLHQLWEKDQLNMAKNTWPILKGF  
 QEGPLNFAPTFKFDVGTNKYDTSAKKRKPAWTDRIILWKVKAPGGPSPSGRKSHRLQVTQHSYRSHMEYT  
 VSDHKPVAAQFLLQFAFRDDMPLVRLEVADEWVRPEQAVVRYRMTVVFARSSWDWIGLYRVGFRHCKDYV  
 AYWAKHEDVDGNTYQVTFSEESLPKGGHDFILGYSHNHSILIGITEPFQISLPSELASSSTDSSGTS  
 SEGEDDSTLELLAPKSRSPSPGKSKRHRSRPGLARFPLALRPSSRERRGASRSPQSRRLSRVAPDR  
 SSSGSSRGSSEEGPSGLPGWAFPPAVPRSLGLLPALRLETVDPGGGGSWGPDREALAPNSLSPSPQGHR  
 GLEEGGLGP

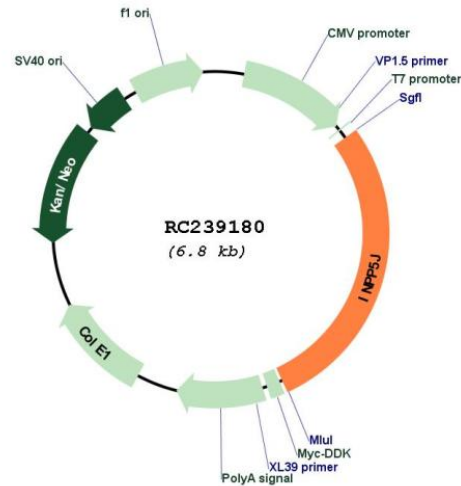
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001284289

**ORF Size:** 1917 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001284289.1](#), [NP\\_001271218.1](#)

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RefSeq Size:	2603 bp
RefSeq ORF:	1920 bp
Locus ID:	27124
UniProt ID:	<a href="#">Q15735</a>
Cytogenetics:	22q12.2
Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	70.9 kDa
Gene Summary:	Inositol 5-phosphatase, which converts inositol 1,4,5-trisphosphate to inositol 1,4-bisphosphate. Also converts phosphatidylinositol 4,5-bisphosphate to phosphatidylinositol 4-phosphate and inositol 1,3,4,5-tetrakisphosphate to inositol 1,3,4-trisphosphate in vitro. May be involved in modulation of the function of inositol and phosphatidylinositol polyphosphate-binding proteins that are present at membranes ruffles (By similarity).[UniProtKB/Swiss-Prot Function]