

## Product datasheet for **RC239876**

### PIB5PA (INPP5J) (NM\_001284285) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIB5PA (INPP5J) (NM_001284285) 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
ORF Nucleotide Sequence:	>RC239876 representing NM_001284285 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGGCCAGAGCAGCAGGGGCAGCAGGAGGCCAGGGACCCGGGCTGGCCTGGGTTCCCTGCCCATGC  
CCCAGGGTGTGGCCAACTGGGGCACCTCCAAGGTGGACTCAAGTTTTAGCTCCAGCAAAGAAGAA  
CGCAGCCCTAGGACCCTCGGAACCAAGGTTGGCTCTGGCACCTGTAGGGCCACGGGCAGCTATGTCAGCT  
TCCTCGGAAGGACCGAGGCTGGCTCTGGCATCTCCCCGACCAATCCTGGCTCCACTGTGTACCCCTGAAG  
GGCAGAAAACAGCTACTGCCACCCGAGCTCCAGCCTGGCCCCAACATCTGTGGGCCAGCTGGTGATGTC  
TGCCCTAGCTGGACCAAAGCCTCCCCAGCGACCACAGGCTCAGTTCTGGCTCCGACGTCCTGGGGCTG  
GTGATGCCTGCCTCAGCAGGGCCAAGATCTCCCCAGTCACCCTGGGGCCAATCTGGCCCCAACCTCCA  
GAGACCAGAAGCAGGAGCCACCTGCCTCCGTGGGACCCAAGCCAACACTGGCAGCCTCTGGCCTGAGCCT  
GGCCCTGGCTTCTGAGGAGCAGCCCCAGAAGCTCCCTCCACCCCTTCCCCGGTGGCCAGTCCAGTTCTG  
TCTCCAACCTCAGGAACAGGCCCTGGCTCCAGCATCCACGGCATCAGGCGCAGCCTCTGTGGACAGACAT  
CAGCTAGAAAGAGGGATGCCCCAGCCCCTAGACCTCTCCCTGCTTCTGAGGGGCATCTCCAGCCTCCAGC  
TCAGACATCTGGTCTACAGGCTCCCCACCCTGCATCCAAACCTCCCCAGACCCTCGGCTCTCCCCCTCC  
TTCGAGCCCGGCTGAGGCCCTCCACAGCAGCCCTGAGGATCCTGTTTTGCCACGGCCACCCAGACCT  
TGCCCTTGGATGTGGGCCAGGGTCTTCCAGAGCCTGGCACTCACTCCCCTGGACTTCTGTCCCCACCTT  
CCGGCCTGGGGCCCCCTCAGGCCAGACTGTGCCCCACCTCTGCCAAGCCACCCGATACCCAGCCGT  
TCCCCAAGCCACTCCCCGAATCGCTCTCCCTGTGTTCCCCAGCCCTGACATGGCCCTCCAAGGCTTG  
GCACACAGAGTACAGGGCCTGGCAGGTGCCTGAGCCCCAACCTTCCAGGCCAAGAAGCCCCAGCCCCAGT  
CACCACCTCCTTCTACATCCACCCTGTATCCTCCCCTGGTCAGCTCAGCCTACCTGGAAGAGCGAC  
CCCGGCTTCCGGATCACTGTGGTCACATGGAACGTGGGCACTGCCATGCCCCAGACGATGTCACATCCC  
TCTCCACCTGGGCGGTGGTGACGACAGCGACGGCGCAGACATGATCGCCATAGGGTTGCAGGAAGTGAA  
CTCCATGTCTAACAAGCGACTCAAGGACGCCCTTTCACGGACCAGTGGAGTGAGCTGTTTCATGGATGCG  
CTAGGGCCCTTCAACTTCGTGCTGGTGAGTTCCGGTGGAGATGCAGGGTGTATCCTGCTGCTTCCGCCA



AGTACTACCACCTGCCCTTCTGCGAGACGTGCAGACCGACTGCACGCGCACTGGCCTGGGCGGCTACTG  
 GGGTAACAAGGGTGGCGTGAGCGTGCAGCTGGCGGCTTCGGGCACATGCTCTGCTTCTGAACTGCCAC  
 TTGCTGCGCATATGGACAAGGCGGAGCAGCGCAAAGCAACTCCAGACCATCTCAGCCTCCAGCAGT  
 TCCAAGGGCCGGGCGCACAGGGCATCCTGGATCATGACCTCGTGTTCGTTTCGGGGACCTGAACTCCG  
 CATTGAGAGCTATGACCTGCACTTTGTCAAGTTGCCATCGACAGTGACCAGTCCATCAGCTCTGGGAG  
 AAGGACCAGCTCAACATGGCCAAGAACACCTGGCCATTCTGAAGGGCTTTCAGGAGGGGCCCCCACT  
 TCGCTCCCACCTCAAGTTTGTATGTGGGTACCAACAAATACGATACCAGTGCCAAGAAACGGAAGCCAGC  
 TTGGACAGACCGTATCCTATGGAAGGTCAAGGCTCCAGGTGGGGTCCCAGCCCCCTCAGGACGGAAGAGC  
 CACCGACTCCAGGTGACGACGACAGCTACCGCAGCCACATGGAATACACAGTCAGCGACCACAAGCCTG  
 TGGCTGCCAGTTCTCTGCGAGTTTGCCTTCAGGGACGACATGCCACTGGTGGCGCTGGAGGTGGCAGA  
 TGAGTGGGTGGGCGCCGAGCAGGCGGTGGTGGGTACCGCATGGAACAGTGTTCCGCCGACGCTCTGG  
 GACTGGATCGGCTTATACCGGTGGTTTCCGCCATTGCAAGGACTATGTGGCTTATGTCTGGGCCAAAC  
 ATGAAGATGTGGATGGGAATACCTACCAGTAACATTAGTGAGGAATCACTGCCAAGGGCCATGGAGA  
 CTTTCATCTGGGCTACTATAGTCACAACCACAGCATCCTCATCGGCATCACTGAACCTTCCAGATCTCG  
 CTGCTTCTCGGAGTTGGCCAGCAGCAGCAGACAGCTCAGGCACCAGCTCAGAGGGAGAGGATGACA  
 GCACACTGGAGCTCCTTGACCCCAAGTCCCGCAGCCCCAGTCTGGCAAGTCCAAGCGACACCCGAGCCG  
 CAGCCCCGGGACTGGCCAGGTTCCCTGGGCTTGCCCTACGGCCCTCATCCCGTGAACGCCGTGGTGGCAGC  
 CGTAGCCCTCACCCAGAGCCGCCCTGTCCCGAGTGGCTCCTGACAGGAGCAGTAATGGCAGCAGCC  
 GGGGACAGTAGTGAAGAGGGGCCCTCTGGGTTGCCTGGCCCTGGGCTTCCCACCAGCTGTGCCTCGAAG  
 CCTGGGCTGTGGCCGCTTGGCCTAGAGACTGTAGACCCTGGTGGTGGTGGCTCCTGGGGACCTGAT  
 CGGGAGGCCCTGGCGCCAACAGCCTGTCTCTAGTCCCAGGGCCATCGGGGCTGGAGGAAGGGGCC  
 TGGGGCCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239876 representing NM\_001284285  
 Red=Cloning site Green=Tags(s)

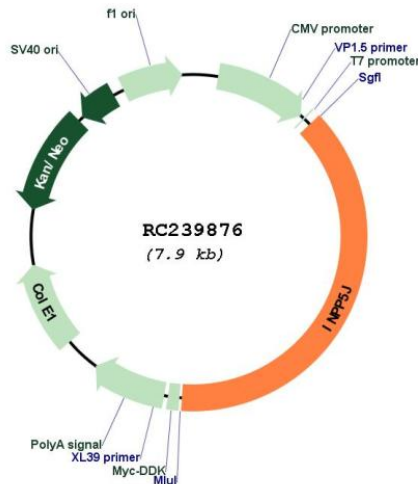
MEGQSSRRSRRPGRAGLGLSLPMPQVQVAGTAPSKVDSFQLPAKKNAALGPSEPRLLALPVGPRAAMSA  
 SSEGPRLALASPRPILAPLCTPEGQKTATAHRSSSLAPTSVGQLVMSASAGPKPPPATTGSLVAPLPSLGL  
 VMPASAGPRSPVTLGPNLAPTSRDQKQEPASVGPKPTLAASGLSLALASEEQPELPSTPSPVPSVL  
 SPTQEALAPASTASGAASVQTSARKRDAPAPRPLPASEGHLQPPAQTSGPTGSPPCIQTSPDPRLSPS  
 FRARPEALHSSPEDPVLPRPPQTLPLDVGGQGPSEPETHSPGLLSPTFRPGAPSGQTVPPPLPKPPRSPSR  
 SPSHSPNRSPCVPPADMALPRLGTQSTGPRCLSPNLQAQEAAPVTTSSSTLSSSPWSAQPTWKSD  
 PGFRITVVTWVGTAMPDDVTSLLHLGGDDSDGADMIAGLQEVNSMLNKRLKDALFTDQWSELFMDA  
 LGPFNFVLVSSVRMQVILLLLFAKYYHLPFLRDVQTDCTRTGLGGYWGNGGVSVRLLAAFGHMLCFLNCH  
 LPAHMDKAEQRKDNFQITLSLQQFQGPQAQILDHDLVFWFGDLNFRIESYDLHFVKFAIDSDQLHQLWE  
 KDQLNMAKNTWPIILKGFQEGPLNFAPTFKFDVGTNKYDTSAKKRKPAWTDRIWLVKAPGGGSPSPGRKS  
 HRLQVTQHSYRSHMEYTVSDHKPVAAQFLLQFAFRDDMPLVRLVLEVADEWVRPEQAVVRYRMETVFARSSW  
 DWIGLYRVGFRHCKDYVAVYVWAKHEDVDGNTYQVTFSEESLPGKHGDFILGYSHNHSILIGITEPFQIS  
 LPSSSELASSSTDSSTGTSSEGEDDSTLELLAPKSRSPSPGKSKRHRSPGLARFPGLALRPPSRERRGAS  
 RSPSPQSRRLSRVAPDRSSNGSSRGSSEEGPSGLPGWAFPPAVPRSLGLLPALRLETVDPPGGGSGWGPD  
 REALAPNSLSPSPQGHRLGEEGLGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001284285

**ORF Size:** 3018 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](#)

<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_001284285.2</a>
<b>RefSeq Size:</b>	3407 bp
<b>RefSeq ORF:</b>	3021 bp
<b>Locus ID:</b>	27124
<b>UniProt ID:</b>	<a href="#">Q15735</a>
<b>Cytogenetics:</b>	22q12.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>MW:</b>	107.6 kDa
<b>Gene Summary:</b>	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]