

Product datasheet for **RR209419**

Ippk (NM_001008556) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ippk (NM_001008556) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ippk
Synonyms:	C9orf12; RGD1311271; rIpk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR209419 representing NM_001008556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGAGGGGAAAATGGACGAGAATGAATGGAGTTACCATGGCGAAGGCAACAAGAGCCTTGTGGTGG
 CCCACGCGCAGCGCTGTGTAGTTCTGCGCTTCTGAAGTTTCTCCAAATAAGAAGAAGACCTCAGAAGA
 GATACTTCAGCATCTGCAGAACATAGTGGACTTTGGCAAAAATGTCATGAAAGACTTTTTGGGAGAGAAC
 TATGTTTATTGTGGGAGGTTGTTTCACTGCTTTAGAGTTTGTGAAACAACCTGTGTTTAAAGATACAGT
 GTGAAAGACCAGAGTCCCCTTGTGACAAGGACCTGGACACACTCAGTGGTTATGCTATGTGCCTTCCCAA
 TTTGACCAGACTCAGACCTTCCCTTTGCAGAGCACCACCAATTCTGTGTGTGGAGATTAAGCCAAAA
 TGTGGGTTTATTCCTTTCTCAAATGGTGTCAACCAGAGATGAAGCACAAGGTGTCCGGTACTGCATGC
 ACCAGCACCTCAAGGTAGCGACTGGAAAGTGAAGAAAAATCAGTAAATACTGTCCCCTTGACCTCTACTC
 AGGAAATAAGCAGCGTATGCACTTTGCCTTGAAGAGTCTTCTGCAGGAGCGCAGATAACCTTAGGATA
 TTTAAGAATGGAGAGCTGATTTATGGCTGTGCTGATGCCCGAGCCCCGTGGCTGACTTGAAGGCGCTTG
 CACACCACCTGAAGCCCTTCTTCTCCCTTCCAATGGCCTGGCCAGTGGCCCTCAGTGCACGAGGGCTGT
 GATCCGGGAGCTGGTGCATGTTATCACCAGGGTGTGCTCAGCACCTCAGACAAAGGCCGAGCGGGTGC
 TTGAGGCTTGGGCTCCAGGGCGCACGAGTCTGTGAAGCCAGCCATTGACAGGAGCCTACATCACCAG
 GAAAAACACCCAGAGCACTCGGGGTTACCGAAGGGCTGTCTTCTGTACAAAACCTCCAGGTGCAGAT
 GTTGACCAGCTGGACATCGAAGCCCTACCTCTGTACAACCGGGTTGAGCAATACCTGGAGGAGTTT
 CCTGAGGAGAGGAAAACATTACAGATAGATGGCCTTATGATGAAGTATTTACCAGAACTGCTTGATC
 TATCCACTGAGGATGATGGGACAGTGGCCTTTGCATTAACAAAGGTGCAGCAGTACCGTAGCATGAC
 CGCCAAGGACTGTTCCATCATGATCGCACTTTCCCTTGTCTACAGGGCGCCAGCTCTGACCAGAGGCT
 GTTATCCCTTCGTCAGATCCCCTGGCCTTCTCTGTGTCTGTACTGGACCTCGACCTCAAGCCCTATG
 AGAGCATTCCTCACCAGTATAAACTAGACAGCAAGATAGTCACTATTACTCAAAGACTGTGCATGCCAA
 AGATGACACTGTGAGGTCCACTCGGTTCAAGGAACATGAAGACTGCACATTAGTTCTCCATAAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209419 representing NM_001008556
 Red=Cloning site Green=Tags(s)

MEEGKMDENEWSYHGEENKSLVVAHAQRCVVLRFKFPNKKKTSEEILQHLQNI VDFGKNVMKDFLGEN
 YVHCGEVVQLPLEFVKQLCLKIQ CERPERCDKDLDTLSGYAMCLPNLTRLQTFPFAEHRPILCVEIKPK
 CGFIPFSNGVTHEMKHKVCRYCMHQHLKVATGKWKKISKYCLDLYSGNKQRMHFALKSLLQEAQNNLRI
 FKNGLIYGCADARSPVADLKALAHHLKPFPPSNGLASGPQCTRAVIRELVHVI TRVLLSTSDKGRAGA
 LRLGLQGARVCEASPF SRSLHHQGNTP EHSGLPKGCLLYKTLQVQMLDQLDIEGLYPL YNRVEQYLEEF
 PEERKTLQIDGPYDEVFYQKLLDLSTEDDGT VAFALTKVQYRVAMTAKDCSIMIALSPCLQGASSDQRP
 VIPSSRSRLAFSVSLDLDLKPYESIPHQYKLD SKIVSYYSKTVHAKDDTVRSTRFKEHEDCTLVLHKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

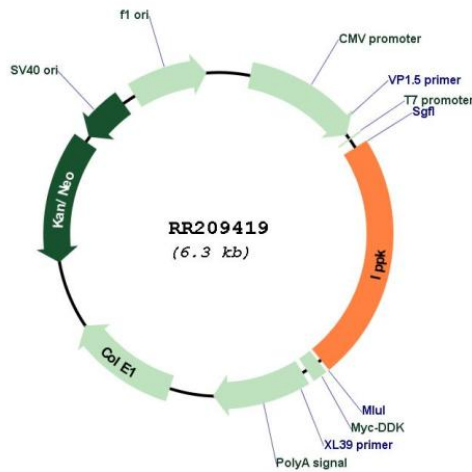
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001008556

ORF Size:

1467 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:	<ol style="list-style-type: none">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:	<u>NM_001008556.1, NP_001008556.1</u>
RefSeq Size:	1470 bp
RefSeq ORF:	1470 bp
Locus ID:	306808
UniProt ID:	<u>Q5PXE9</u>
Cytogenetics:	17p14
MW:	55.6 kDa
Gene Summary:	Phosphorylates Ins(1,3,4,5,6)P5 at position 2 to form Ins(1,2,3,4,5,6)P6 (InsP6 or phytate). InsP6 is involved in many processes such as mRNA export, non-homologous end-joining, endocytosis, ion channel regulation. It also protects cells from TNF-alpha-induced apoptosis. [UniProtKB/Swiss-Prot Function]