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Product datasheet for RC205175

IPPK (NM_022755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IPPK (NM_022755) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IPPK
Synonyms:	bA476B13.1; C9orf12; INSP5K2; IP5K; IPK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC205175 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGAGGGGAAGATGGACGAGAATGAATGGGGGTACCACGGAGAGGGCAATAAGAGCCTGGTGGTGG
CCCACGCGCAGCGCTGCGTCGTGCTGCGGTTTCTGAAGTTTCCTCCAAATAGGAAGAAGACCTCGGAAGA
GATATTTCAACACCTGCAGAACATAGTGGACTTTGGGAAAAATGTCATGAAGGAGTTTTTGGGGGAGAAC
TATGTTCATTATGGGGAGGTCGTTCAGCTACCTTTAGAGTTTGTGAAACAGCTTTGTTTAAAGATACAAT
CTGAAAGACCAGAGTCTCGCTGTGACAAGGACCTGGATACTCTCAGTGGTTACGCTATGTGCCTTCCTAA
TTTAACCAGACTCCAAACCTACCGCTTTGCAGAGCACCGGCCGATTCTGTGTGTAGAGATTAAGCCAAAA
TGTGGGTTTATTCCTTTCTCGAGTGATGTCACGCATGAGATGAAGCATAAGGTCTGTCGATACTGCATGC
ACCAGCACCTCAAGGTAGCAACTGGGAAGTGGAAGCAGATCAGCAAATACTGTCCCCTTGATCTCTACTC
AGGAAACAAACAGAGAATGCACTTTGCCTTGAAGAGTTTGCTGCAGGAGGCACAGAACAACTTGAAGATA
TTTAAGAATGGTGAGCTGATTTACGGCTGCAAAGATGCCCGGAGCCCCGTGGCTGACTGGAGCGAGCTTG
CACACCACCTGAAGCCGTTCTTCTTCCCTTCCAACGGCCTGGCCAGTGGGCCCCACTGCACAAGGGCTGT
GATCAGGGAGCTGGTGCACGTGATCACACGGGTGCTGCTGAGTGGCTCGGACAAGGGCCGGGCAGGCACC
CTGAGTCCGGGGCTCGGGCCTCAGGGCCCGCGAGTCTGCGAAGCCAGCCCTTTCAGTAGGAGCCTTCGCT
GCCAAGGAAAAAACACCCCAGAGCGCTCGGGGTTACCGAAGGGCTGTCTTCTGTACAAAACCCTCCAGGT
GCAGATGTTGGACCTGCTGGACATCGAAGGCCTCTACCCTCTGTACAACCGGGTTGAGCGATACCTGGAA
GAGTTTCCCGAGGAGAGAAAAACCTTACAAATAGATGGGCCTTATGATGAAGCATTTTACCAGAAGCTGC
TTGACCTTTCCACTGAGGATGACGGGACAGTGGCCTTCGCGCTAACGAAGGTGCAGCAGTACCGCGTCGC
CATGACTGCCAAGGACTGCTCCATCATGATTGCACTGTCTCCCTGTCTGCAGGATGCCAGCTCTGATCAA
AGGCCTGTCGTCCCTTCATCGAGGTCCAGGTTTGCCTTTTCCGTGTCTGTGCTGGACCTTGACCTCAAGC
CCTACGAGAGCATTCCCCATCAGTATAAACTGGACGGCAAGATCGTCAACTATTATTCAAAGACTGTACG
TGCCAAAGACAACGCCGTGATGTCGACTCGGTTCAAGGAAAGCGAAGATTGCACATTAGTTCTCCACAAG
GTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205175 protein sequence
Red=Cloning site Green=Tags(s)

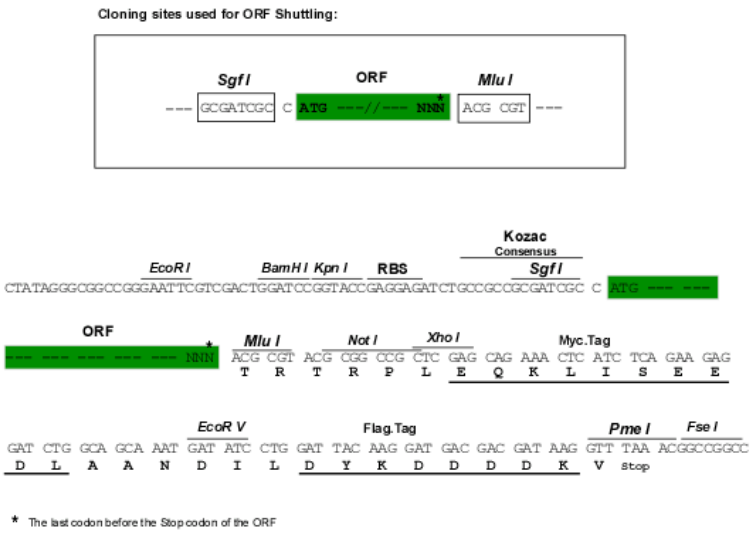
MEEGKMDENEWGYHGEGNKSLVVAHAQRCVVLRFLKFPPNRKKTSEEIFQHLQNIVDFGKNVMKEFLGEN
YVHYGEVVQLPLEFVKQLCLKIQSERPESRCDKDLDTLSGYAMCLPNLTRLQTYRFAEHRPILCVEIKPK
CGFIPFSSDVTHEMKHKVCRYCMHQHLKVATGKWKQISKYCPLDLYSGNKQRMHFALKSLLQEAQNNLKI
FKNGELIYGCKDARSPVADWSELAHHLKPFFFPSNGLASGPHCTRAVIRELVHVITRVLLSGSDKGRAGT
LSPGLGPQGPRVCEASPFSRSLRCQGKNTPERSGLPKGCLLYKTLQVQMLDLLDIEGLYPLYNRVERYLE
EFPEERKTLQIDGPYDEAFYQKLLDLSTEDDGTVAFALTKVQQYRVAMTAKDCSIMIALSPCLQDASSDQ
RPVVPSSRSRFAFSVSVLDLDLKPYESIPHQYKLDGKIVNYYSKTVRAKDNAVMSTRFKESEDCTLVLHK
V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6029_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022755

ORF Size: 1473 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_022755.6

RefSeq Size: 4401 bp

RefSeq ORF: 1476 bp

Locus ID: 64768

UniProt ID: Q9H8X2

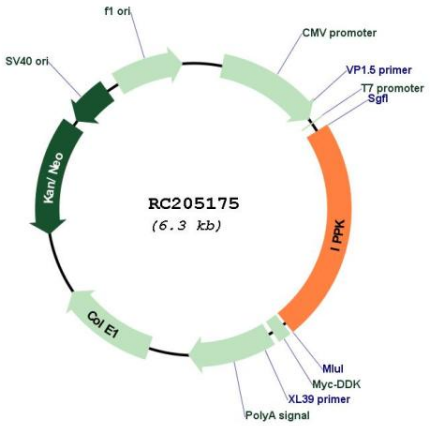
Cytogenetics: 9q22.31

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

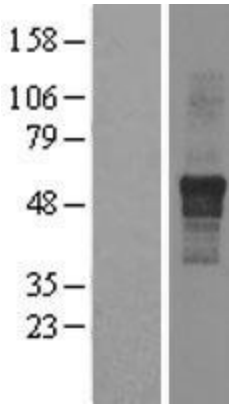
MW: 56 kDa

Gene Summary: The protein encoded by this gene is a kinase that phosphorylates position 2 of inositol-1,3,4,5,6-pentakisphosphate to form inositol-1,2,3,4,5,6-hexakisphosphate (InsP6). InsP6 has a variety of functions, including stimulation of DNA repair, endocytosis, and mRNA export. [provided by RefSeq, Nov 2010]

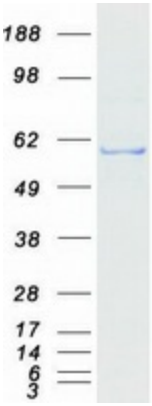
Product images:



Circular map for RC205175



Western blot validation of overexpression lysate (Cat# [LY402937]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205175 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IPPK protein (Cat# [TP305175]). The protein was produced from HEK293T cells transfected with IPPK cDNA clone (Cat# RC205175) using MegaTran 2.0 (Cat# [TT210002]).