

Product datasheet for **RG205175**

IPPK (NM_022755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IPPK (NM_022755) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IPPK
Synonyms:	bA476B13.1; C9orf12; INSP5K2; IP5K; IPK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205175 representing NM_022755
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGAGGGGAAGATGGACGAGAATGAATGGGGTACCACGGAGAGGGCAATAAGAGCCTGGTGGTGG
 CCCACGCGCAGCGCTGCGTCGTGCTGCGTTTCTGAAGTTTCTCCAATAGGAAGAAGACCTCGGAAGA
 GATATTTCAACACCTGCAGAACATAGTGGACTTTGGAAAAATGTCATGAAGGAGTTTTTGGGGGAGAAC
 TATGTTTATTATGGGGAGGTTCGTTACGCTACCTTTAGAGTTTGTGAAACAGCTTTGTTTAAAGATACAAT
 CTGAAAGACCAGAGTCTCGTGTGACAAGGACCTGGATACTCTCAGTGGTTACGCTATGTGCCTTCTAA
 TTTAACAGACTCCAACCTACCGCTTTGCAGAGCACCGCCGATTCTGTGTGTAGAGATTAAGCCAAAA
 TGTGGGTTTATTCCTTTCTCGAGTGATGTCACGCATGAGATGAAGCATAAGGTCTGTGATACTGCATGC
 ACCAGCACCTCAAGGTAGCAACTGGGAAGTGAAGCAGATCAGCAAATACTGTCCCCTTGATCTCTACTC
 AGGAAACAAACAGAGAATGCACTTTGCCTTGAAGAGTTTCTGTCAGGAGGCACAGAACAACCTGAAGATA
 TTTAAGAATGGTGAAGTATTCAGGCTGCAAAGATGCCCGAGCCCCGTGGCTGACTGGAGCGAGCTTG
 CACACCACCTGAAGCCGTTCTTCTTCCCTTCCAACGGCCTGGCCAGTGGGCCCCACTGCACAAGGGCTGT
 GATCAGGGAGCTGGTGCACGTGATCACACGGGTGCTGCTGAGTGGCTCGGACAAGGGCCGGGCGAGCACC
 CTGAGTCCGGGGCTCGGGCCTCAGGGCCCGGAGTCTGCGAAGCCAGCCCTTTCAGTAGGAGCCTTCGCT
 GCCAAGGAAAAACACCCAGAGCGCTCGGGGTTACCGAAGGGCTGTCTTCTGTACAAAACCTCCAGGT
 GCAGATGTTGGACCTGCTGGACATCGAAGGCCTTACCCTCTGTACAACCGGGTTAGCGGATACCTGGAA
 GAGTTTTCCCGAGGAGAGAAAAACCTTACAAATAGATGGCCTTATGATGAAGCATTTTACCAGAAGCTGC
 TTGACCTTTCCACTGAGGATGACGGGACAGTGGCCTTCGCGCTAACGAAGGTGCAGCAGTACCGGCTCGC
 CATGACTGCCAAGGACTGCTCCATCATGATTGCACTGTCTCCCTGTCTGCAGGATGCCAGCTCTGATCAA
 AGGCCTGTCTCCCTTATCGAGGTCCAGTTCGCTTTTCCGTTCTGTGCTGGACCTTACCTCAAGC
 CCTACGAGAGCATTCCCATCAGTATAAACTGGACGGCAAGATCGTCAACTATTATTCAAAGACTGTACG
 TGCCAAAGACAACGCCGTGATGTCGACTCGGTTCAAGGAAAGCGAAGATTGCACATTAGTTCTCCACAAG
 GTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205175 representing NM_022755
 Red=Cloning site Green=Tags(s)

MEEGKMDENEWGYHGEENKSLVVAHAQRCVVLRFKFPNRRKTSEEIFQHLQNI VDFGKNVMKEFLGEN
 YVHYGEVVQLPLEFVKQLCLKIQSERPESRCDKDLDTLSGYAMCLPNLTRLQTYRFAEHRPILCVEIKPK
 CGFIPFSSDVTHEMKHKVCRYCMHQHLKVATGKWKQISKYCPLDLYSGNKQRMHFALKSLLQEAQNLLKI
 FKNGELIYGCKDARSPVADWSEL AHHLKPFPPSNGLASGPHCTRAVIRELVHVI TRVLLSGSDKGRAGT
 LSPGLGPQGRVCEASPF SRSLRCQKNTPERSLPKGCLLYKTLQVQMLDLDIEGLYPLYNRVERYLE
 EFPEERKTLQIDGPYDEAFYQKLLDLSTEDDGTVAFALTKVQYRVAMTAKDCSIMIALSPCLQDASSDQ
 RPVVPSSRSRFAFSVSVLDL DLKPYESIPHQYKLDGKIVNYYSKTVRAKDNAVMS TRFKESDCTLVLHK
 V

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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

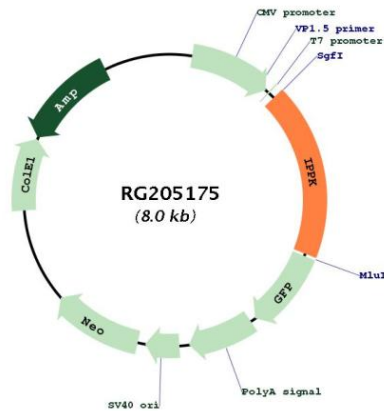
UniProt ID: [Q9H8X2](#)

Cytogenetics: 9q22.31

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

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 RG205175