

## Product datasheet for RC209343

### IPMK (NM\_152230) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IPMK (NM_152230) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IPMK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209343 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAACAGAGCCACCATCCCCCTCCGGGTCGAGGCGCCGGGCCCCCAGAAATGCGGACCTCACCGG  
CGATCGAGTCCACCCCTGAGGGCACCCCGCAGCCGGCGGGCGGCAGACTCCGCTTCTCAACGGCTGCGT  
GCCCTCTCGCATCAGGTGGCCGGGCACATGTACGGGAAGGACAAAGTGGGTATACTGCAACATCCAGAT  
GGCACAGTTTTGAAACAGTTACAACCACCTCCAAGGGGCCAAGAGAGCTGGAATCTATAATATGGTTT  
ATGCTGCTGACTGTTTTGATGGTGTCTTCTAGAGCTACGAAAATATTTGCCAAAATATTATGGCATCTG  
GTCACCTCCCACTGCACCAAACGATTTATACCTAAAAGTGAAGATGTGACCCATAAATTTAATAAGCCC  
TGTATAATGGATGTAAAGATAGGGCAAAAAGCTATGATCCTTTTGCCTCATCTGAGAAGATTCAGCAAC  
AGGTCAGCAAGTACCCATTAATGGAAGAGATTGGGTTCTTGGTGCTTGGCATGAGGGTTTATCATGTTCA  
TTCCGATAGCTATGAGACAGAAAACCAGCATTACGGAAGAAGCTTAACAAAAGAACTATAAAGGATGGA  
GTCTCCAGATTTTTTATAATGGTACTGCTTAAGAAAAGATGCTGTTGCTGCCAGTATTCAGAAGATTG  
AGAAAATCTGCAGTGGTTTAAAACCAGAAGCAGCTTAATTTTTACGCAAGTTCATTACTTTTGTGTTA  
TGAAGGTTTCATCTCAGCCAACCACTACAAAATGAATGACAGAAGTGGCAGAAAAGTTTTGTCCAAA  
GGACAAGTGTGAGACACAGAAGTACTAGAGTACAATAAATACTTTTCATGTGTTAAGTTCACAGCTAATG  
GAAAAATAGAGTCTTCAGTGGGCAAAAGCTTGTCCAAGATGTATGCGCGTCACAGGAAAAATATACAAA  
AAAGCATCACAGTCACTTTCATTGAAAGTTGAAAATCTGGAGCAAGACAATGGGTGAAAAAGCATGTCA  
CAGGAACATTTAAATGGAATGTACTTTCCCAACTGAAAAAGTTTTCTACCATCTTCCCACTGGTTGCC  
AAGAGATTGCTGAAGTAGAAGTGCGAATGATAGATTTTGCTCATGTGTTCCCTAGCAACACAATAGATGA  
GGGATATGTTTATGGGCTAAAGCATTTAATTTCTGTACTTCGAAGATTTTAGACAAT

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209343 protein sequence  
 Red=Cloning site Green=Tags(s)

MATEPPSPLRVEAPGPEMRTSPAIESTPEGTPQPAGGRLRFLNGCVPLSHQVAGHMYGKDKVGIHQHPD  
 GTVLKQLQPPRGPREFYNMVYAADCDFGVLLLELRKYLPKYYGIWSPPTAPNDLYLKLEDVTHKFNKP  
 CIMDKIQKSYDPFASSEKIQQVSKYPLMEEIGFLVLGMRVYHVHSDSYETENQHYGRSLTKETIKDG  
 VSRFFHNGYCLRKDAVAASIQKIEKILQWFENQKQLNFYASSLLFVYEGSSQPTTTKLNDRTLAEKFLSK  
 GQLSDTEVLEYNNFVHLSSTANGKIESSVGKSLSKMYARHKIYTKKHSQTSCLKVENLEQDNGWKSMS  
 QEHLNGNVLSQLKVFYHLPTGCQEIAEVEVRMIDFAHVFPSTIDEGYVYGLKHLISVLRISILDN

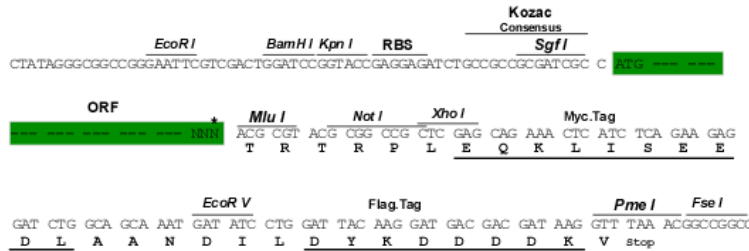
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6672\\_c04.zip](https://cdn.origene.com/chromatograms/mk6672_c04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_152230

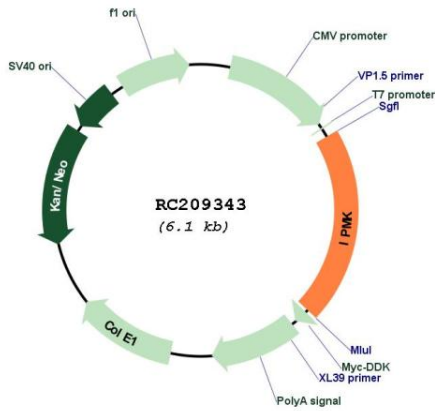
ORF Size: 1248 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

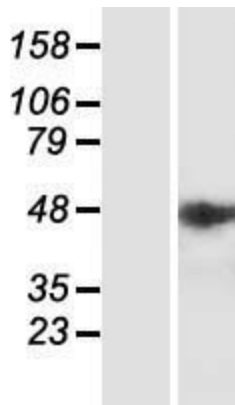
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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>	<u><a href="#">NM_152230.5</a></u>
<b>RefSeq Size:</b>	6133 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	253430
<b>UniProt ID:</b>	<u><a href="#">Q8NFU5</a></u>
<b>Cytogenetics:</b>	10q21.1
<b>Protein Pathways:</b>	Inositol phosphate metabolism
<b>MW:</b>	47.2 kDa
<b>Gene Summary:</b>	This gene encodes a member of the inositol phosphokinase family. The encoded protein has 3-kinase, 5-kinase and 6-kinase activities on phosphorylated inositol substrates. The encoded protein plays an important role in the biosynthesis of inositol 1,3,4,5,6-pentakisphosphate, and has a preferred 5-kinase activity. This gene may play a role in nuclear mRNA export. Pseudogenes of this gene are located on the long arm of chromosome 13 and the short arm of chromosome 19. [provided by RefSeq, Dec 2010]

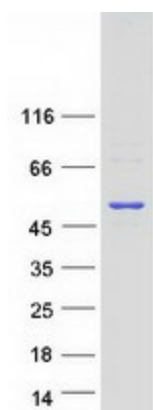
Product images:



Circular map for RC209343



Western blot validation of overexpression lysate (Cat# [LY407707]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209343 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IPMK protein (Cat# [TP309343]). The protein was produced from HEK293T cells transfected with IPMK cDNA clone (Cat# RC209343) using MegaTran 2.0 (Cat# [TT210002]).