

Product datasheet for **RC209200**

IP3KC (ITPKC) (NM_025194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IP3KC (ITPKC) (NM_025194) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IP3KC
Synonyms:	IP3-3KC; IP3KC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC209200 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGCGCTGCCCGTGCCGTGGGAGCCTGAACGAGGCGGAGGCCGGGGCGCTGCCCGCGCGGCCCGCA
TGGGACTGGAGGCGCCGAGGAGGGCGCGCGGACAGCAGCGACCTGGGCCCGCGCAGG
GGCCCCGCGGGGCGCCGAGGGGGCGGGCCCTGGGCCGGACAGAGGGTCCAGCCTCCACAGCGAG
CCTGAGAGGGCGGCCCTCGGCCCTGCGCCGGGACAGAGAGTCCGACAGCAGAATTCTGGACAGCGGAC
AGACTGAGCCCGCGCAGCTGGCCTTGGAGTAGAGACCGAGAGGCCAAAGCAAAGACGGAGCCAGACAG
GTCCAGCCTCCGGACGCATCTAGAATGGAGCTGGTCCAGAGCTGGAGACGACTTGTCTTTGGACGGAGACC
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AGCCAGGAAAACAGCCTGGCACTGGTGGTTTCAAATAACAACAGGATACTGATGGCTCCTGGACACAACCT
AGCACTGACGGTCCCAGACAGCACCTGGGACAGACTGCCTCTTGGGAGAGCCTGAGGATGGCCATTAG
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CTGGCCAAGTCTGGATGATAGACTTCGGCAAGACGGTGGCCTTGCCCGACCACCAGACGCTCAGCCACA
GGCTGCCCTGGGCTGAGGGCAACCGTGAGGACGGTACCCTCTGGGGCCTGGACAACATGATCTGCCTCCT
GCAGGGGCTGGCACAGAGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RC209200 protein sequence
Red=Cloning site Green=Tags(s)

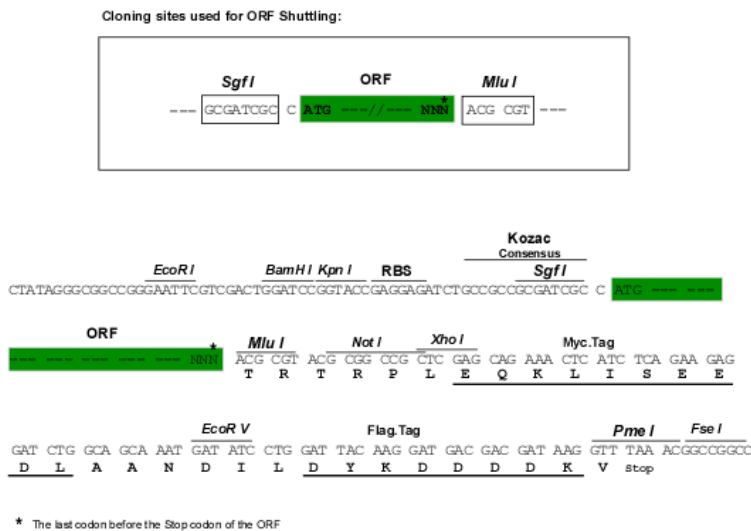
MRRPCRCGSLNEAEAGALPAAARMGLEAPRGRRRQPGQQRPGPGAGAPAGRPEGGGPWARTEGSSLHSE
 PERAGLGPAPGTESPQAEFWTDGQTEPAAAGLVETERPKQKTEPDRSSLRTHLEWSWSELETTCLWTET
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 FQAGEDGRILKRFQCEQSRLEQLMKDPLRPFVPAYYGMVLQDGGTFNQMEDLLADFEQSIMDCKMGRS
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 DGTNTNFKKTQALEQVTKVLEDFVDGDHVLQKYVACLEELREALEISPFKTHEVVGSSLLFVHDHTG
 LAKVWMIDFGKTVALPDHQTLSHRLPWAEGNREGYLVGLDNMICLLQGLAQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6820_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025194

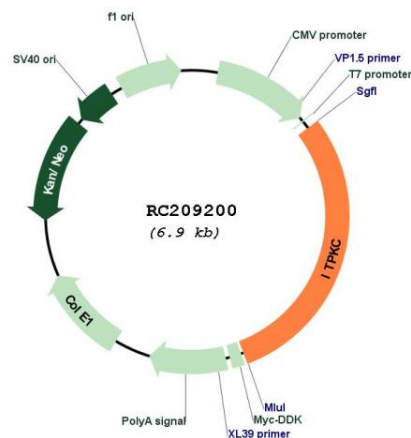
ORF Size: 2049 bp

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](#)

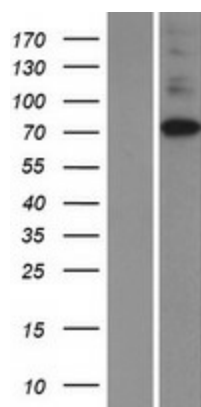
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_025194.3</u>
RefSeq Size:	3398 bp
RefSeq ORF:	2052 bp
Locus ID:	80271
UniProt ID:	<u>Q96DU7</u>
Cytogenetics:	19q13.2
Domains:	IPK
Protein Families:	Druggable Genome
MW:	75.2 kDa
Gene Summary:	This gene encodes a member of the inositol 1,4,5-trisphosphate [Ins(1,4,5)P(3)] 3-kinase family of enzymes that catalyze the phosphorylation of inositol 1,4,5-trisphosphate to 1,3,4,5-tetrakisphosphate. The encoded protein is localized to the nucleus and cytoplasm and has both nuclear import and nuclear export activity. Single nucleotide polymorphisms in this gene are associated with Kawasaki disease.[provided by RefSeq, Sep 2009]

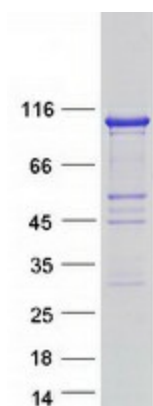
Product images:



Circular map for RC209200



Western blot validation of overexpression lysate (Cat# [LY410845]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209200 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ITPKC protein (Cat# [TP309200]). The protein was produced from HEK293T cells transfected with ITPKC cDNA clone (Cat# RC209200) using MegaTran 2.0 (Cat# [TT210002]).