

Product datasheet for **RG209200**

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:	TurboGFP
Symbol:	IP3KC
Synonyms:	IP3-3KC; IP3KC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209200 representing NM_025194
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCGCTGCCCGTGCCTGGGAGCCTGAACGAGGCGGAGGCCGGGGCGCTGCCCGCGGCCCGCA
 TGGGACTGGAGGCGCCGAGGAGGGCGCGCGGACAGCAGCGACCTGGGCCCGCGCAGG
 GGCCCCGCGGGGCGCCGAGGGGGCGGGCCCTGGGCCGGACAGAGGGTCCAGCCTCCACAGCGAG
 CCTGAGAGGGCGGCCTCGGCCTGCGCCGGGACAGAGAGTCCGACAGCAGAATTCTGGACAGCGGAC
 AGACTGAGCCCGCGCAGCTGGCCTTGGAGTAGAGACCGAGAGGCCAAAGCAAAGACGGAGCCAGACAG
 GTCCAGCCTCCGGACGCATCTAGAATGGAGCTGGTCCAGAGCTGGAGACGACTTGTCTTTGGACGGAGACC
 GGGACAGATGGCCTTTGGACTGATCCGCACAGGTCGACCTCCAGTTTCAGCCCGAGGAGGCCAGCCCT
 GGACACAGCCAGGGTTTCATGGCCCTGGACAGAGCTGAAAACGCATGGGTCCAGACTCAGCCAGAGAG
 GGTCAAGTCTGGGCTGATAACCTCTGGACCCACCAGAACAGTTCAGCCTCCAGACTCACCCAGAAGGA
 GCCTGTCCCTCAAAGAGCCAAGTGTGATGGCTCCTGAAAAGAATTGTATACTGATGGCTCCAGGACAC
 AACAGGATATTGAAGTCCCTGGACAGAGCCATATACTGATGGCTCCAGAAAAACAGGATACTGAAGC
 AGCCAGGAAAACAGCCTGGCACTGGTGGTTTCAAATAACAACAGGATACTGATGGCTCCTGGACACAACCT
 AGCACTGACGGTCCCAGACAGCACCTGGGACAGACTGCCTCTTGGGAGAGCCTGAGGATGGCCATTAG
 AGGAACCAGAGCCTGGAGAATTGCTGACTACCTGTACTCTCACCTGAAGTGTAGCCCCCTGTGCCTGT
 GCCCCGCTCATCATTACCCCTGAGACCCTGAGCCTGAGGCCAGCCAGTGGGACCCCTCCCGGGT
 GCGGAGGTGCCAGCGATCCCAGGACAGGTCTGGGAGCAAACCTGGAAGAAGCTGAAGACAGTTCTGAA
 GTATTCACCCTTTGTGGTCTCCTCCGAAAACACTACCCTTGGGTCCAGCTTTCTGGACATGCTGGGAAC
 TTCAGGCAGGAGAGGATGGTCGGATTCTGAAACGTTTCTGTCAAGTGTGAGCAGCGCAGCCTGGAGCAGC
 TGATGAAAGACCCGCTGCGACCTTTCGTGCCTGCCTACTATGGCATGGTGTGCTGCAGGATGGCCAGACCT
 CAACCAGATGGAAGACCTCCTGGCTGACTTTGAGGGCCCTCCATTATGGACTGCAAGATGGGCAGCAGG
 ACCTATCTGGAAGAGGAGCTAGTGAAGGCACGGGAACGTCCCGTCCCGGAAGGACATGTATGAGAAGA
 TGGTGGCTGTGGACCCTGGGCCCCTACCCTGAGGAGCATGCCAGGGTGCAGTACCAAGCCCCGCTA
 CATGCAGTGGAGGAAACCATGAGCTCCACCTTACCCTGGCTTCCGGATCGAGGGCATCAAGAAGGCA
 GATGGGACCTGTAAACCAACTTCAAGAAGACGCAGGCACTGGAGCAGGTGACAAAAGTGTGGAGGACT
 TCGTGGATGGAGACCACGTCATCCTGAAAAGTACGTGGCATGCCTAGAAGAACTTCGTGAAGCTCTGGA
 GATCTCCCCCTTTCAAGACCCACGAGGTGGTAGGCAGCTCCCTCCTTTCGTGCACGACCACACCCGGC
 CTGGCCAAGGTCTGGATGATAGACTTCGGCAAGACGGTGGCCTTGCCCGACCACCAGACGCTCAGCCACA
 GGCTGCCCTGGGCTGAGGGCAACCGTGGAGACGGTACCCTCTGGGCCTGGACAACATGATCTGCCTCCT
 GCAGGGGCTGGCACAGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209200 representing NM_025194
 Red=Cloning site Green=Tags(s)

MRRCPCRGSLNEAEAGALPAAARMGLEAPRGGRRRQPGQQRPGPGAGAPAGRPEGGGPWARTEGSSLHSE
 PERAGLGPAPGTESPAEFWTDGQTEPAAAGLVETERPKQKTEPDRSSLRTHLEWSWSELETTCLWTET
 GTDGLWTDPHRSDLQFQPEEASPWTQPQGVHGPWTELETHGSQTQPERVKSWADNLWTHQNSSLQTHPEG
 ACPSKEPSADGSWKELYTDGSRQQDIEGPWTEPYTDGSSQKKQDTEAARKQPGTGGFQIQDQTDGSWTQP
 STDGSQLAPGTDCLLGEPEDGPLEEPEGELLTHLYSHLKCSPLCPVPRLIITPETPEPEAQPVGPPSRV
 EGGSGGFSASSFDESEDDVVAGGGGASDPEDRSGSKPWKLLKTVLKYSFVVSFRKHYPWVQLSGHAGN
 FQAGEDGRILKRFQCEQSRLEQLMKDPLRPFVPAYYGMVLQDGGTFNQMEDLLADFEGPSIMDCKMGR
 TYLEELVKARERPRPRKDMYEKMAVDPGAPTPEEHAQAVTKPRYMQWRETMSTSTLGFRIEIKKA
 DGTNTNFKKTQALEQVTKVLEDFVDGDHVLQKYVACLEELREALEISPFKTHEVVGSSLLFVHDHTG
 LAKVVMIDFGKTVLDPHQTLSHRLPWAEGNREDGYLWGLDNMICLLQGLAQS

TRTRPLE - GFP Tag - V

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:

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_025194.3](#)

RefSeq Size: 3398 bp

RefSeq ORF: 2052 bp

Locus ID: 80271

UniProt ID: [Q96DU7](#)

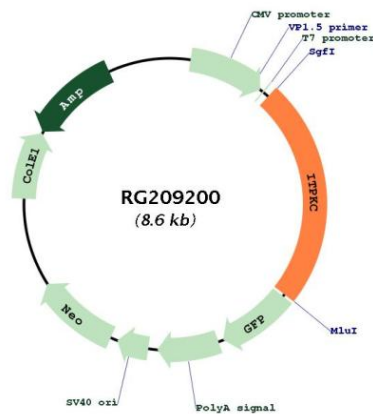
Cytogenetics: 19q13.2

Domains: IPK

Protein Families: Druggable Genome

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 RG209200