

Product datasheet for **RC231227**

KCNJ18 (NM_001194958) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	KCNJ18
Synonyms:	KIR2.6; TTPP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RC231227 representing NM_001194958
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACCGCGGCCAGCCAGGCCAACCCCTACAGCATCGTGTCATTGGAGGAGGACGGGCTGCACCTGGTCA
 CCATGTGTCAGGCGCCAAAGGCTTCGGCAACGGCAAGGTGCACACGCAGCACAGGTGCCGCAACCGCTTCGT
 CAAGAAGAATGGCCAGTGCAACATTGCGTTTCGCCAACATGGACGAGAAGTCACAGCGCTACCTGGCTGAC
 ATGTTCAACACCTGTGTGGACATCCGCTGGCGCTACATGCTGCTCATCTTCTCACTGGCCTTCCTTGCCT
 CCTGGCTGCTGTTGGCGTTCATCTTCTGGGTATCGCGGTGGCAGCATGGTGACCTGGAGCCGGCTGAGGG
 CCACGGCCGACACCCCTGTGTGATGCAGGTGCACGGCTTCATGGCGGCCCTTCCTCTTCCATCGAGACG
 CAGACCACCATCGGCTACGGGCTGCGCTGTGTGACGGAGGAGTGCCTGGTGGCCGTCTTCATGGTGGTGG
 CCCAGTCCATCGTGGGCTGCATCATCGACTCCTTCATGATTGGTGCCATCATGGCCAAGATGGCAAGGCC
 CAAGAAGCGGGCACACGCTGCTGTTAGCCACAACGCCGTGGTGGCCCTGCGTGACGGCAAGCTCTGC
 CTCATGTGGCGTGTGGGCAACCTGCGCAAGAGCCACATTGTGGAGGCCATGTGCGCGCGCAGCTCATCA
 AGCCCGCGGTACCGAGGAGGGCGAGTACATCCGCTGGACCAAGTTCGACATCGATGTGGGCTTCGACAA
 GGGCTGGACCGCATCTTCTGGTGTGCGCCATCACCATTCTGCATGAAATTGACGAGGCCAGCCCACTC
 TTGGGCATCAGCCGGCAGGACCTGGAGACGGACGACTTTGAGATCGTGGTCATCCTGGAAGGCATGGTGG
 AGGCCACAGCCATGACCAACCCAGGCCGCGAGCTCCTACCTGGCCAATGAGATCCTGTGGGGTCACCGCTT
 TGAGCCCGTCTCTTTGAGGAGAAGAACCAGTTCAAGATTGACCACTCGCACTTCCACAAGACCTATGAG
 GTGCCCTCTACGCCCCGCTGCAGTGCAGGATCTGGTAGAGAACAAGTTCCTGCTGCCAGTGCCAACT
 CCTTCTGCTATGAGAAGAGCTGGCCTTCTGAGCCGTGACGAGGAGGATGAGGCGGACGGAGACCAGGA
 CGGCCGAAGCCGGGATGGCCTCAGCCCCCAGGCCAGGCATGACTTTGACAGACTCCAGGCTGGCGGCGGG
 GTCCTGGAGCAGCGGCCCTACAGACGGGGTCAAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231227 representing NM_001194958
 Red=Cloning site Green=Tags(s)

MTAASQANPYSIVSLEEDGLHLVTMSGAKGFNGKVHTQHRCRNRFVKKNGQCNI AFANMDEKSQRYLAD
 MFTTCVDIRWRYMLLIFSLAFLASWLLFGVIFWVIAVAHGDLEPAEGHGRTPCVMQVHGFMAAFLSIET
 QTTIGYGLRCVTEECLVAVFMVVAQSIVGCIIDSFMIGAIMAKMARPKKRAHTLLFSHNAVVALRDGKLC
 LMWRVGNLRKSHIVEAHVRAQLIKPRVTEEGEYIPLDQVDIDVGFDKGLDRIFLVSPITILHEIDEASPL
 LGISRQDLETDDFEIVVILEGMVEATMTQARSSYLANEILWGHREFPVLFEKNQFKIDSHHFHKTYE
 VPSTPRCSAKDLVENKFLPSANSFCYENELAFLSRDEEDEADGDQDGRSRDGLSPQARHDFDRLQAGGG
 VLEQRPYRRGSEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1306_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001194958

ORF Size: 1299 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001194958.1](#), [NP_001181887.1](#)

RefSeq ORF: 1302 bp

Locus ID: 100134444

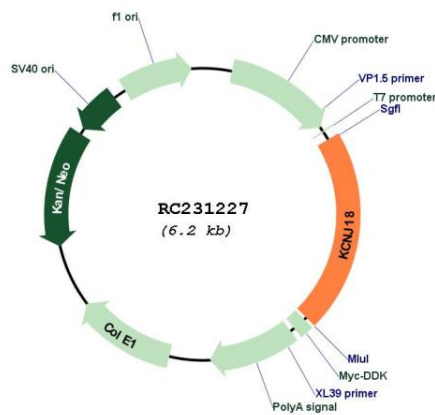
UniProt ID: [B7U540](#)

Cytogenetics: 17p11.2

MW: 49.3 kDa

Gene Summary: This gene encodes a member of the inwardly rectifying potassium channel family. Transcription of this locus is regulated by thyroid hormone, and the encoded protein plays a role in resting membrane potential maintenance. Mutations in this locus have been associated with thyrotoxic hypokalemic periodic paralysis. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RC231227