

Product datasheet for **RC216744**

KCNJ14 (NM_170720) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNJ14 (NM_170720) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNJ14
Synonyms:	IRK4; KIR2.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216744 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCTGGCCAGGGCCCTACGCCCTCAGCGCGCCCTGGATTCTGGGAGACAGCCGGCGGGCGATG
 AAGAGGAGGCCGGGCCCGGGTTGTGCCGAACGGGTGGGCGCGCACCGGTGCAGTCAACCGTGGGCCG
 GCGCCGCGGTTCGTTTCGTAAGAAAGACGGCACTGCAACGTGCGTTTCGTAACCTGGGTGGCCAGGGC
 GCGCGCTACCTGAGCGACCTGTTACCACATGCGTGGACGTGCGCTGGCGCTGGATGTGCCTGCTTCT
 CCTGCTCCTTCTCGCTCCTGGCTGCTTTCGGCCTGGCCTTCTGGCTCATTGCCTCGCTGCACGGCGA
 CCTGGCCGCCGCCACCGCCCGCCCTGTTCTCACACGTGGCCAGCTTCTGGCCGCCTTCTCTTCT
 GCGCTGGAGACGCAGACGTCCATCGGCTACGGCGTGGCAGCGTCACCGAGGAGTGCCCGCCGCTGTGG
 CCGCCGTGGTGTGCAGTGCATTGCCGGTGGCTGCTCGACGCCCTTCGTCGTGGGTGCTGCATGGCCAA
 GATGGCCAAACCAAGAAGCGCAACGAGACGCTGGTCTTACGCGAGAACCGCGTCGTGGCGCTGCGCGAC
 CACCGCCTCTGCCTCATGTGGCGCGTCGCAACCTGCGCCGACGCCACCTGGTCGAGGCCACGTGCGTG
 CCCAGCTGCTGCAGCCCCGTGTGACCCCAGAGGGTGAGTACATCCCGCTGGACCACCAGGATGTGGATG
 GGGCTTTGATGGAGGCACCGATCGTATCTTCTCGTGTCCCCATCACCATCGTCCATGAGATCGACTCT
 GCCAGTCTCTGTATGAGCTAGGACGTGCCGAGCTGGCCAGGGTGACTTTGAGCTGGTGGTCACTTCTG
 AGGGATGGTTGAGGCCACAGCCATGACCACACAGTGTGCTCGCTACCTCCCTGGTGAACCTGCTCTG
 GGGCCATCGTTTTGAGCCAGTTCTTCCAGCGTGGCTCCAGTATGAGGTGACTATCGCCACTCCAT
 CGCACTTATGAGGTCCCAGGGACACCGGTCTGCAGTGTAAAGAGCTGGATGAACGGGCAGAGCAGGCTT
 CCCACAGCCTCAAGTCTAGTTTTCCCGGCTCTCTGACTGCATTTTGTATGAGAATGAACCTGCTCTGAG
 CTGCTGCCAGGAGGAAGATGAGGACGATGAGACTGAGGAAGGGAATGGGGTGAAACAGAAGATGGGGCT
 GCTAGCCCCGAGTTCTCACACCAACCCTGGCGCTGACCCTGCCTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216744 protein sequence
 Red=Cloning site Green=Tags(s)

MGLARALRRLSGALDSGDSRAGDEEEAGPGLCRNGWAPAPVQSPVGRRRGRFVKKDGHCNRFVNLGGQG
 ARYLSDFLFTTCVDVRRWRMCLLFSCSFLASWLLFGLAFWLIASLHGDLAAPPPAPCFSHVASFLAAFLF
 ALETQTSIGYGVRSVTEECPAAVAAVVLQCIAGCVLDAFVVGAVMAKMAKPKKRNETLVFSENAVVALRD
 HRLCLMWRVGNLRRSHLVEAHVRAQLLQPRVTPEGEYIPLDHDQVDVGFDDGGTDRIFLVSPITIVHEIDS
 ASPLYELGRAELARADFELVVILEGMVEATAMTTQCRSSYLPGELLWGHFRFEPVLFQRGSQYEVDRHFH
 RTYEVPGTPVCSAKELDERAEQASHLSKSSFPGLTAFCEYENELALSCCQEEDDEDETEEGNGVETEDGA
 ASPRVLTPTLALTLPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6343_g05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_170720

ORF Size: 1308 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_170720.1](#), [NP_733838.1](#)

RefSeq Size: 3120 bp

RefSeq ORF: 1310 bp

Locus ID: 3770

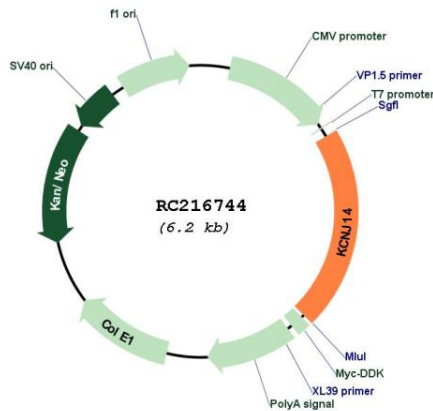
Cytogenetics: 19q13.33

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

MW: 47.8 kDa

Gene Summary: Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel, and probably has a role in controlling the excitability of motor neurons. [provided by RefSeq, Feb 2013]

Product images:



Circular map for RC216744