

Product datasheet for **RC207756**

KCNJ14 (NM_013348) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNJ14 (NM_013348) 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:

>RC207756 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGCCTGGCCAGGGCCCTACGCCCTCAGCGCGCCCTGGATTCTGGGAGACAGCCGGCGGGCGATG
 AAGAGGAGGCCGGGCCCGGGTTGTGCCGAACGGGTGGGCGCGCACCGGTGCAGTCACCCGTGGGCCG
 GCGCCGCGGTTCGTTTCGTAAGAAAGACGGCACTGCAACGTGCGTTTCGTAACCTGGGTGGCCAGGGC
 GCGCGCTACCTGAGCGACCTGTTACCACATGCGTGGACGTGCGCTGGCGCTGGATGTGCCTGCTTCT
 CCTGCTCCTTCTCGCTCCTGGCTGCTTTCGGCCTGGCCTTCTGGCTCATTGCCTCGCTGCACGGCGA
 CCTGGCCGCCGCCACCGCCCGCCCTGTTCTCACACGTGGCCAGCTTCTGGCCGCCTTCTCTTCT
 GCGCTGGAGACGCAGACGTCCATCGGCTACGGCGTGGCAGCGTCACCGAGGAGTGCCCGCCGCTGTGG
 CCGCCGTGGTGTGCAGTGCATTGCCGGTGGCTGCTCGACGCCCTTCGTCGTGGGTGCTGCATGGCCAA
 GATGGCCAAACCAAGAAGCGCAACGAGACGCTGGTCTTACGCGAGAACCGCGTCGTGGCGCTGCGCGAC
 CACCGCCTCTGCCTCATGTGGCGCGTCCGCAACCTGCGCCGACGCCACCTGGTCGAGGCCACGTGCGTG
 CCCAGCTGCTGCAGCCCCGTGTGACCCCAGAGGGTGAGTACATCCCGCTGGACCACCAGGATGTGGATGT
 GGGCTTTGATGGAGGCACCGATCGTATCTTCTCGTGTCCCCATCACCATCGTCCATGAGATCGACTCT
 GCCAGTCTCTGTATGAGCTAGGACGTGCCGAGCTGGCCAGGGTGACTTTGAGCTGGTGGTCACTTCTCG
 AGGGATGGTTGAGGCCACAGCCATGACCACACAGTGTGCTCGCTACCTCCCTGGTGAACCTGCTCTG
 GGGCCATCGTTTTGAGCCAGTTCTTCCAGCGTGGCTCCAGTATGAGGTCGACTATCGCCACTCCAT
 CGCACTTATGAGGTCCCAGGGACACCGGTCTGCAGTGTAAAGAGCTGGATGAACGGGCAGAGCAGGCTT
 CCCACAGCCTCAAGTCTAGTTTTCCCGGCTCTCTGACTGCATTTTGTATGAGAATGAACCTGCTCTGAG
 CTGCTGCCAGGAGGAAGATGAGGACGATGAGACTGAGGAAGGGAATGGGGTGAAACAGAAGATGGGGCT
 GCTAGCCCCGAGTTCTCACACCAACCCTGGCGCTGACCCTGCCTCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207756 protein sequence
 Red=Cloning site Green=Tags(s)

MGLARALRRLSGALDSGDSRAGDEEEAGPGLCRNGWAPAPVQSPVGRRRGRFVKKDGHCNRFVNLGGQG
 ARYLSDLFTTCVDVRRWRMCLLFSCSFLASWLLFGLAFWLIASLHGDLAAPPPAPCFSHVASFLAAFLF
 ALETQTSIGYGVRSVTEECPAAVAAVVLQCIAGCVLDAFVVGAVMAKMAKPKKRNETLVFSENAVVALRD
 HRLCLMWRVGNLRRSHLVEAHVRAQLLQPRVTPEGEYIPLDHQDQVDVDFDGGTDRIFLVSPITIVHEIDS
 ASPLYELGRAELARADFELVVILEGMVEATAMTTQCRSSYLPGELLWGHFRFEPVLFQRGSQYEVDRHFH
 RTYEVPGTPVCSAKELDERAEQASHSLKSSFPGLTAFCEYENELALSCCQEEDDEDETEEGNGVETEDGA
 ASPRVLTPTLALTLPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_013348

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.

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

RefSeq: [NM_013348.4](#)

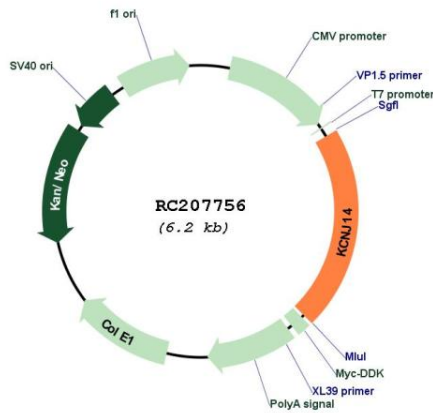
RefSeq Size: 2851 bp

RefSeq ORF: 1311 bp

Locus ID: 3770

UniProt ID: [Q9UNX9](#)
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 RC207756