

Product datasheet for **RC200340**

KCNJ8 (NM_004982) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNJ8 (NM_004982) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNJ8
Synonyms:	KIR6.1; uKATP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC200340 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGGCCAGAAAGAGTATCATCCCGGAGGAGTATGTGCTGGCGGCATCGCCGCAGAGAACCTGCGCA
AGCCGCGCATCCGAGACCGCTCCCAAAGCCGCTTCATCGCCAAGAGCGGGCCGCTGCAACCTGGCGCA
TAAGAACATCCGTGAGCAAGGACGCTTTCTACAGGACATCTTACCACCTTGGTGGACCTGAAATGGCGC
CACACGCTGGTCATCTTTACCATGTCTTCTCTGACGCTGGCTGCTTTCGCTATCATGTGGTGGCTGG
TGGCCTTTGCCATGGGACATCTATGCTTACATGGAGAAAAGTGGAAATGGAGAAAAGTGGTTTGGAGTC
CACTGTGTGTGACTAATGTCAGGTCTTTCACCTTCTGCTTTTCTTCTCCATTGAAGTTCAAGTTACC
ATTGGGTTTGGAGGGAGGATGATGACAGAGGAATGCCCTTGGCCATCACGGTTTGTATTCTCCAGAATA
TTGTGGGTTTGTATCATCAATGCAGTCATGTTAGGCTGCATTTTCATGAAAACAGCTCAGGCTCACAGAAG
GGCAGAACTTTGATTTTTCAGCCGCCATGCTGTGATTGCCGTCCGAAATGGCAAGCTGTGCTTCATGTTT
CGAGTGGGTGACCTGAGGAAAAGCATGATCATTAGTGCCTCTGTGCGCATCCAGGTGGTCAAGAAAACAA
CTACACCTGAAGGGGAGGTGGTTCTATTACCAACTGGACATTCCTGTTGATAACCCAATCGAGAGCAA
TAACATTTTTCTGGTGGCCCTTTGATCATCTGCCACGTGATTGACAAGCGCAGTCCCCTGTATGACATC
TCAGCAACTGACCTGGCCAACCAAGACTTGGAGGTCATAGTTATTCTGGAAGGAGTGGTTGAAACTACTG
GCATCACCACACAAGCACGAACCTCCTACATTGCTGAGGAGATCCAATGGGGCCACCGCTTTGTGTCCAT
TGTGACTGAGGAAGAAGGAGTGTATTCTGTGGATTACTCCAAATTTGGCAACTGTTAAAGTAGCTGCT
CCACGGTGCAGTGCCCGAGAGCTGGATGAGAAACCTTCCATCCTTATTGAGACCTCCAAAAGAGTGAAC
TGTCATCAAAAATTCTCTGAGGAAGCGCAACTCCATGAGAAGAAACAATTCCATGAGGAGGAACAATTC
TATCCGAAGGAACAATTCTCCCTCATGGTACCAAGGTGCAATTTATGACTCCAGAAGGAATCAAAAC
ACATCGGAATCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200340 protein sequence
Red=Cloning site Green=Tags(s)

MLARKSIPEEYVLARIAAENLRKPRIRDRLPKARFIAKSGACNLAHKNIREQGRFLQDIFTTLVDLKWR
HTLVIFTMSFLCSWLLFAIMWWLVAFAHGDIYAYMEKSGMEKSGLESTVCVTNVRSFSAFLFSIEVQVT
IGFGGRMMTEECPLAITVLILQNIIVGLIINAVMLGCFMKTAQAHRRRAETLIFSRHAVIAVRNGKLCFMF
RVGDLRKSMIISASVRIQVVKTTTPEGEVVPPIHQLDIPVDNPIESNNIFLVAPLIICHVIDKRSPLYDI
SATDLANQDLEIVILEGVVETGITTQARTSYIAEEIQWGHFRFVSIVTEEEGVYSVDYSKFGNTVKVAA
PRCSARELDEKPSILIQTLQKSELHQNSLRKNSMRRNNSMRRNNSIRRNSSLMPVKVQFMTPEGNQN
TSES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6277_c04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004982

ORF Size: 1272 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_004982.4](#)

RefSeq Size: 2406 bp

RefSeq ORF: 1275 bp

Locus ID: 3764

UniProt ID: [Q15842](#)

Cytogenetics: 12p12.1

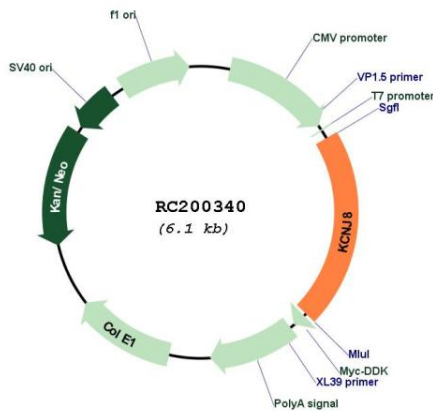
Domains: IRK

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

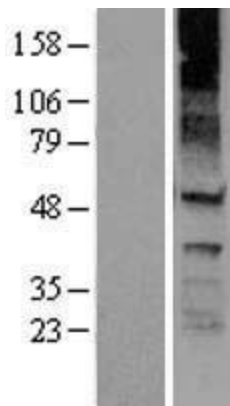
MW: 48 kDa

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. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins. Defects in this gene may be a cause of J-wave syndromes and sudden infant death syndrome (SIDS). [provided by RefSeq, May 2012]

Product images:



Circular map for RC200340



Western blot validation of overexpression lysate (Cat# [LY417611]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200340 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).