

Product datasheet for **RC216308**

KCNV2 (NM_133497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNV2 (NM_133497) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNV2
Synonyms:	Kv8.2; KV11.1; RCD3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216308 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCAAACAGAGTGAGAGGAGACGGTCTCGAGCTACAGGCCCTGGAACACGACGGAGAATGAGGGCA
 GCCAACACCGCAGGAGCATTGCTCCCTGGGTGCCGTTCCGGCTCCAGGCCAGCATCCACGGCTGGAC
 AGAGGGCAACTATAACTACTACATCGAGGAAGACGAAGACGGCGAGGAGGAGACCAGTGAAGGACGAC
 CTGGCAGAAGAGGACCAGCAGGCAGGGGAGGTACCACCGCCAAGCCGAGGGCCCCAGCGACCCTCCGG
 CCCTGCTGTCCACGCTGAATGTGAACGTGGGTGGCCACAGCTACCAGCTGGACTACTGCGAGCTGGCCGG
 CTTCCCCAAGACGCGCTAGGTCGCTGGCCACCTCCACCAGCCGACGCCAGCTAAGCTGTGCGAC
 GACTACGAGGAGCAGACAGCAATACTTCTTCGACCCGACCCGGCCGCTTCCAGCTGGTCTACAATT
 TCTACCTGTCCGGGTGCTGCTGGTGTGCTGACGGGCTGTGTCGCGCCGCTTCTGGAGGAGCTGGGCTA
 CTGGGGCTGCGGCTCAAGTACACGCCAGCTGTGCCGATCTGCTTCGAGGAGCGGCGGACGAGCTG
 AGCGAACGGCTAAGATCCAGCAGGAGCTGCGCGCGCAGGCGCAGGTTCGAGGAGGCGGAGGAACCTTCC
 GCGACATGCGCTTCTACGGCCCGCAGCGCGCCGCTCTGGAACCTCATGGAGAAGCCGTTCTCCTCGGT
 GGCCGCCAAGGCCATCGGGGTGGCTCCAGCACCTTCGTGCTCGTCTCCGTGGTGGCGCTGGCGCTCAAC
 ACCGTGGAGGAGATGCAGCAGCACTCGGGCAGGGCGAGGGCGGCCAGACCTGCGGCCATCCTGGAGC
 ACGTGGAGATGCTGTGCATGGGCTTCTCACGCTCGAGTACCTGCTGCGCTAGCCTCCACGCCGACCT
 GAGGGCTTCGCGCGCAGCGCCCAACCTGGTGGACCTGGTGGCCATCCTGCCGCTCTACCTTCAGCTG
 CTGCTCGAGTCTTCACGGCGAGGGCCACCAACGCGGCCAGACGGTGGGACGCTGGGTAAAGTGGGTC
 AGGTGTTGCGCGTCATGCGCCTCATGCGCATCTCCGCATCCTCAAGCTGGCGGCCCACTCCACCGGAT
 GGTGCTCCTCGGCTTACGCTGCGCCAGTGTACCAGCAGGTGGGCTGCCTGCTCTTTCATCGCCATG
 GGCATCTTCACTTCTCTGCGGCTGTCTACTCTGTGGAGCACGATGTGCCAGCACCAACTTCACTACCA
 TCCCCACTCCTGGTGGTGGGCCGCGGTGAGCATCTCCACCGTGGGCTACGGAGATATGTACCCAGAGAC
 CCACCTGGGCAGGTTTTTGCCTTCTCTGCAATTGCTTTTGGGATCATTCTCAACGGGATGCCCATTTCC
 ATCCTCTACAACAAGTTTTCTGATTACTACAGCAAGCTGAAGGCTTATGAGTATACCACCATACGAGGG
 AGAGGGGAGAGGTGAACCTCATGCAGAGAGCCAGAAGAAGATAGCTGAGTGTGCTTGAAGCAACCC
 ACAGCTCACCCCAAGACAAGAGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216308 protein sequence
 Red=Cloning site Green=Tags(s)

MLKQSERRRSWSYRPWNTTENEGSQHRRSICSLGARSGSQASIHGWTEGNYNYIEEDEDGEEEDQWKDD
 LAEEDQQAGEVTTAKPEGSPDPPALLSTLNVNVGGHSYQLDYCELAGFPKTRLGRLATSTSRSRQLSLCD
 DYEEQTDEYFFDRDPAVFQLVYNFYLSGVLVLDGLCPRRFLEELGYWGVRLKYTPRCCRICFEERRDEL
 SERLKIQHELRAQAQVEEAELFRDMRFYGPQRRRLWNLMEKPFSSVAAKAIGVASSTFVLSVVALALN
 TVEEMQQHSGQEGGPDLRPILEHVEMLCMGFFTEYLLRLASTPDLRRFARSALNLDLVAIPLYLQL
 LLECFTEGHQRGQTVGSVGVQVLRVRLMRIFRILKLARHSTGLRAFGTFLRQCYQQVGCLLLFIAM
 GIFTFSAAVYSVEHDVPSTNFTTIPHSWWAAVSI STVGYDMYPETHLGRFFAFLCIAFGIILNGMPIS
 ILYNKFSDYYSKLKAYEYTTIRRERGEVNFMRARKKIAECLLGSNPQLTPRQEN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6708_a07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_133497

ORF Size: 1635 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_133497.4](#)

RefSeq Size: 2174 bp

RefSeq ORF: 1638 bp

Locus ID: 169522

UniProt ID: [Q8TDN2](#)

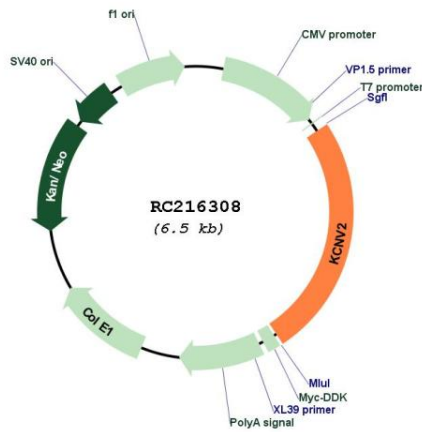
Cytogenetics: 9p24.2

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

MW: 62.5 kDa

Gene Summary: Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium voltage-gated channel subfamily V. This member is identified as a 'silent subunit', and it does not form homomultimers, but forms heteromultimers with several other subfamily members. Through obligatory heteromerization, it exerts a function-altering effect on other potassium channel subunits. This protein is strongly expressed in pancreas and has a weaker expression in several other tissues. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC216308