

Product datasheet for **RC206270**

KCNV1 (NM_014379) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNV1 (NM_014379) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNV1
Synonyms:	HNKA; KCNB3; KV2.3; KV8.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206270 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTTCCAGCGCAGAGCGCTGCTGGACTCGCCGCTGGACAGCGGCTCCCTGACCTCCCTGGGCTCTA
 GTGCTTCTGCAGCGAGGGTGAAGGGGAGCCCTTGGCGCTCGGGACTGCTTACCGTCAACGTGGCGCG
 CAGCCGCTTCGTGCTCTCGCAGCAGGCGCTGCTCTGCTTCCCGCACACGCGCCTTGGCAAGCTGGCCGTG
 GTGGTGGCTTCTACCGCCGCCCGGGGCCCTGGCCGCGTGCCAGCCCTCTGGAGCTTTCGACGATG
 CCAACCCCGTGGACAACGAGTACTTCTCGACCGCAGCTCGCAGGCGTTCGATATGTCCTGCACTACTA
 CCGCACCGGCCGCTGCATGTCATGGAGCAGCTGTGCGCGCTCTCCTTCTGCAGGAGATCCAGTACTGG
 GGCATCGATGAGCTCAGCATCGATTCTGCTGCAGGGACAGATACTTCAAGAAAGAGCTGAGTGAAA
 CTTTAGACTTCAAGAAGGACACAGAAGACCAGGAAAGTCAACATGAGAGTGAACAGGACTTCTCCAAGG
 ACCTTGTCCACTGTTCCGAGAAGCTCTGGAATATCCTGGAGAAACCTGGATCTCCACAGCTGCCCGT
 ATCTTTGGCGTCATCTCCATTATCTTCGTGGTGGTGTCCATCATTAAACATGGCCCTGATGTCAGCTGAGT
 TAAGCTGGCTGGACCTGCAGCTGCTGGAATCCTGGAGTATGTGTGCATTAGCTGGTTCACCGGGGAGTT
 TGTCTCCGCTTCTGTGTGTGCGGGACAGGTGTGCTTCTTAAGAAAGGTGCCAAACATCATAGACCTC
 CTTGCCATCTTGCCCTTCTACATCACTTCTGTTAGAGAGCCTAAGTGGGAGCCAGACCACGCAGGAGC
 TGGAGAACGTGGGGCGCATTGTCCAGGTGTTGAGGCTGCTCAGGGCTCTGCGCATGCTAAAGCTGGGCG
 ACATCCACAGGATTACGCTCCCTTGGGATGACAATCACCCAGTGTACGAAGAAGTCGGCTACTGCTC
 CTATTTCTATCCGTGGGAATCTCTATATTTCAACTGTAGAATACTTTGCTGAGCAAAGCATTCTGACA
 CAACCTTCACAAGTGTCCCTTGTGCATGGTGGGGCCACCACCTCTACTACTGTGGGATATGGGA
 CATTAGACCAGACACCACAGGCAAAATCGTGGCCTTCAATGTATATATTATCGGAATCTTGTCTTG
 GCCTTGCCTATTGCTATTATTAACGATCGCTTCTGCTTGTACTTACCTTGAAACTCAAGGAAGCAG
 CTGTTAGACAGCGTGAAGCCCTAAAGAAGCTTACCAAGAATATAGCCACTGACTCATATATCAGTGTAA
 CTTGAGAGATGTCTATGCCCGGAGTATCATGGAGATGCTGCGACTGAAAGGCAGAGAAAGCAAGTACT
 AGGAGCAGCGGGGAGATGATTCTGGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206270 protein sequence
 Red=Cloning site Green=Tags(s)

MPSSGRALLDSPLDGSLTSLGSSVFCSEGEPEPLALGDCFTVNVGGSRFVLSQQALSCFPHTRLGKLAV
 VVASYYRRPGALAAVPSPELLECDANPVDNEYFFDRSSQAFRYVLHYYRTGRLHVMEQLCALSFLEIQYW
 GIDELSIDSCCRDRYFRKELSETLDFKKTEDQESQHESEQDFSQGPCPTVRQKLWNILEKPGSSSTAAR
 IFGVISIIFFVVVSIINMALMSAELSWLDLQLEILEYVCISWFTGEFVLRFLCVRDRCFRLKVPNIIDL
 LAILPFYITLLVESLSGSQTTQELENVGRIVQLRLLRALRMLKLGRHSTGLRSLGMTITQCYEEVGLLL
 LFLSVGISIFSTVEYFAEQSIPDTTFTSVPCAWWWATTSMTTVGYGDIRPDTTGTGKIVAFMCILSGILVL
 ALPIAIIINDRFSACYFTLKLKEAAVRQREALKCLKNIAATDSYISVNLRDVYARSIMEMRLKGRERAST
 RSSGGDDFWF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6318_e06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_014379

ORF Size: 1500 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_014379.4](#)

RefSeq Size: 2944 bp

RefSeq ORF: 1503 bp

Locus ID: 27012

UniProt ID: [Q6PIU1](#)

Cytogenetics: 8q23.2

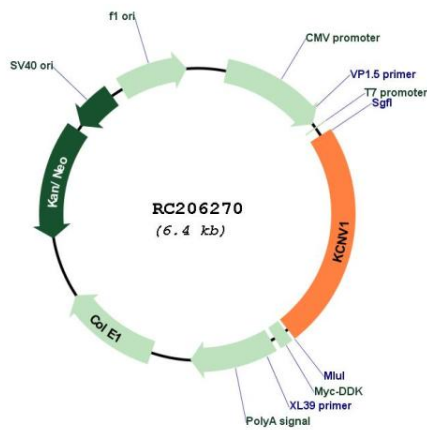
Domains: BTB, K_tetra, ion_trans

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

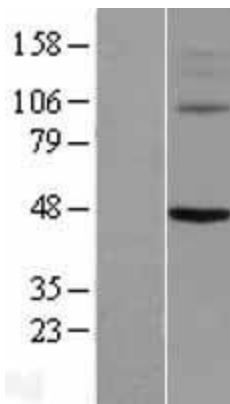
MW: 56.2 kDa

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 protein is essentially present in the brain, and its role might be to inhibit the function of a particular class of outward rectifier potassium channel types. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC206270



Western blot validation of overexpression lysate (Cat# [LY415323]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206270 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).