

## Product datasheet for **RG206270**

### **KCNV1 (NM\_014379) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNV1 (NM_014379) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNV1
Synonyms:	HNKA; KCNB3; KV2.3; KV8.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206270 representing NM\_014379  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCTTCCAGCGCAGAGCGCTGCTGGACTCGCCGCTGGACAGCGGCTCCCTGACCTCCCTGGGCTCTA  
 GTGCTTCTGCAGCGAGGTGAAGGGGAGCCCTTGGCGCTCGGGACTGCTTACCGTCAACGTGGGCGG  
 CAGCCGCTTCGTCTCGCAGCAGCGCTGCTCTGCTTCCCGCACACGCGCCTTGGCAAGCTGGCCGTG  
 GTGGTGGCTTCTACCGCCGCCCGGGCCCTGGCCGCGTGCCAGCCCTCTGGAGCTTTCGACGATG  
 CCAACCCCGTGGACAACGAGTACTTCTCGACCGAGCTCGCAGGCGTCCGATATGTCCTGCACTACTA  
 CCGCACCGCCGCTGCATGTCATGGAGCAGCTGTGCGCGCTCTCCTTCTGCAGGAGATCCAGTACTGG  
 GGCATCGATGAGCTCAGCATCGATTCTGCTGCAGGGACAGATACTTCAGAAGGAAAGAGCTGAGTGAAA  
 CTTTAGACTTCAAGAAGGACACAGAAGACCAGGAAAGTCAACATGAGAGTGAACAGGACTTCTCCAAGG  
 ACCTTGTCCACTGTTCCGAGAAGCTCTGGAATATCCTGGAGAAACCTGGATCTCCACAGCTGCCCGT  
 ATCTTTGGCGTCATCTCCATTATCTTCGTGGTGGTGTCCATCATTAAACATGGCCCTGATGTCAGCTGAGT  
 TAAGCTGGCTGGACCTGCAGCTGCTGGAATCCTGGAGTATGTGTGCATTAGCTGGTTCACCGGGGAGTT  
 TGTCTCCGCTTCTGTGTGTGCGGGACAGGTGTCGCTTCTTAAGAAAGGTGCCAAACATCATAGACCTC  
 CTTGCCATCTTGCCCTTCTACATCACTCTTCTGGTAGAGAGCCTAAGTGGGAGCCAGACCACGCAGGAGC  
 TGGAGAACGTGGGGCGCATTGTCAGGTGTTGAGGCTGCTCAGGGCTCTGCGCATGCTAAAGCTGGGCGAG  
 ACATCCACAGGATTACGCTCCCTTGGGATGACAATCACCCAGTGTACGAAGAAGTCGGCTACTGCTC  
 CTATTTCTATCCGTGGGAATCTCTATATTTCAACTGTAGAATACTTTGCTGAGCAAAGCATTCTGACA  
 CAACCTTCACAAGTGCCTTGTGCATGGTGGGGCCACCACCTCTACTACTGTGGGATATGGGGA  
 CATTAGACCAGACACCACAGGCAAAATCGTGGCCTTCATGTGTATATTATCGGGAATCTTGTCTTG  
 GCCTTGCCTATTGCTATTATTAACGATCGCTTCTGCTTGTCTACTTACCTTGAAACTCAAGGAAGCAG  
 CTGTTAGACAGCGTGAAGCCCTAAAGAAGCTTACCAAGAATATAGCCACTGACTCATATATCAGTGTAA  
 CTTGAGAGATGTCTATGCCCGAGTATCATGGAGATGCTGCGACTGAAAGGCAGAGAAAGCAAGTACT  
 AGGAGCAGCGGGGAGATGATTCTGGTTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG206270 representing NM\_014379  
 Red=Cloning site Green=Tags(s)

MPSSGRALLDSPLDSGSLTSLGSSVFCSEGEPEPLALGDCFTVNVGGSRFVLSQQALSCFPHTRLGKLAV  
 VVASYYRRPGALAAVPSPLELCDDANPVDNEYFFDRSSQAFRYVLHYYRTGRLHVMEQLCALSFLEIQYW  
 GIDELSIDSCCRDRYFRKELSETLDFKKDTEDEQESQHESEQDFSQGPCPTVRQKLWNILEKPGSSTAAR  
 IFGVISIIIFVVVSIINMALMSAELSWLDLQLEILEYVCISWFTGEFVLRFLCVRDRCRFLRKVPNIIDL  
 LAILPFYITLLVESLSGSQTTQLEENVGRIVQVLRLLRALRMLKLGRHSTGLRSLGMTITQCYEEVGLLL  
 LFLSVGISIFSTVEYFAEQSIPDTTFTSVPCAWWWATTSMTTVGYGDIRPDTTGTGKIVAFMCIISGILVL  
 ALPIAIIINDRFSACYFTLKLKEAAVRQREALKCLKNIATDSYISVNLRDVYARSIMEMRLKGRERAST  
 RSSGGDDFWF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-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\\_014379.2](#), [NP\\_055194.1](#)

**RefSeq Size:** 2944 bp

**RefSeq ORF:** 1503 bp

**Locus ID:** 27012

**UniProt ID:** [Q6PIU1](#)

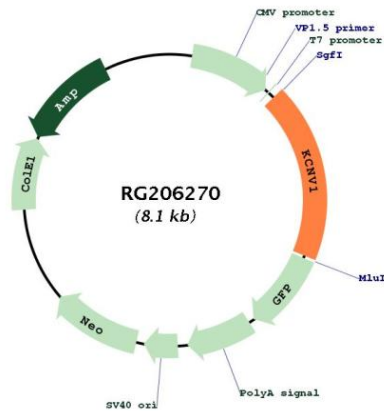
**Cytogenetics:** 8q23.2

**Domains:** BTB, K\_tetra, ion\_trans

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

**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 RG206270