

## Product datasheet for **SC115023**

### **KCNV1 (NM\_014379) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNV1 (NM_014379) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNV1
Synonyms:	HNKA; KCNB3; KV2.3; KV8.1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014379, the custom clone sequence may differ by one or more nucleotides

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ATGCCTTCCAGCGGCAGAGCGCTGCTGGACTCGCCGCTGGACAGCGGCTCCCTGACCTCCCTGGACTCTA
GTGTTCTTTCGAGCGAGGGTGAAGGGGAGCCCTTGGCGCTCGGGGACTGTTACAGGTCAACGTGGCGCG
CAGCCGCTTCGTGCTCTCGCAGCAGGCGCTGTCTGCTTCCCGCACACGCGCCTTGGCAAGCTGGCCGTG
GTGGTGGCTTCTACCGCCGCCCGGGGCCCTGGCCGCGCTGCCAGCCCTTGGAGCTTTCGACGATG
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CCGCACCGCCGCTGCATGTCATGGAGCAGCTGTGCGCGCTCTCCTTCTGCAGGAGATCCAGTACTGG
GGCATCGATGAGCTCAGCATCGATTCTGCTGCAGGGACAGATACTTCAGAAGGAAAGAGCTGAGTGAAA
CTTTAGACTTCAAGAAGGACACAGAAGACCAGGAAAGTCAACATGAGAGTGAACAGGACTTCTCCCAAGG
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TGGAGAACGTGGGGCGCATTGTCCAGGTGTTGAGGCTGCTCAGGGCTCTGCGCATGCTAAAGCTGGGCAG
ACATTCCACAGGATTACGCTCCCTTGGGATGACAATACCCAGTGTACGAAGAAGTCCGGCTACTGCTC
CTATTTCTATCCGTGGGAATCTCTATATTTTCAACTGTAGAATACTTTGCTGAGCAAAGCATTCTGACA
CAACCTTCAACAAGTGTCCCTTGTGCATGGTGGTGGGCCACCACCTCTATGACTACTGTGGGATATGGGGA
CATTAGACCAGACACCACACAGGCAAAATCGTGGCCTTCATGTGTATATTATCGGGAATTCTTGCTTG
GCCTTGCCTATTGCTATTATTAACGATCGCTTCTGCTTGTACTTTCACCTTAAAACCTCAAGGAAGCAG
CTGTTAGACAGCGTGAAGCCCTAAAGAAGCTTACCAAGAATATAGCCACTGACTCATATATCAGTGTAA
CTTGAGAGATGTCTATGCCCGGAGTATCATGGAGATGCTGCGACTGAAAGGCAGAGAAAGCAAGTACT
AGGAGCAGCGGGGAGATGATTTCTGGTTTTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014379 unedited</p> <pre>GTATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGCCCTCCACC CACCAAGTAGCGAGTCATTCAATCTGTACACCTCTGGGCTGGGAATCGCAATTGCGAAG TTGGGAGGCGGGGTGACAACGTTTGGGAAGGGCCAGGGCGACGGCAGTGTGCACAGGGA CTGTGTCGGGCTTGGACCTCACCTGATCCTCTCTTAGCGCGACCCTTCCTCTGCTCCC TGTCCTCTTTCTGCCACTTGTGCGCTGCTTCCGCGCACTCCCGGCTCCCTAGCGGCAG GAGGAGGAAGGGCCACAGCGGGTGGAGAGGGTGCGCCAAGGAGAGGTAACCCCTTCGGGA GCCCGGGGAATCCCGGCCACCAGGGGCCGTGCCACCGCCCTCGCGGGACCAAAGCTT CCGGCGTGTCCCAACTTTGTGGCGCCCTCAGGCCGCGGCGACTGGTTAGAGATGCCTT CCAGCGGCAGAGCGCTGCTGGACTCGCCGCTGGACAGCGGCTCCCTGACCTCCCTGGACT CTAGTGTCTTCTGCAGCGAGGGTGAAGGGGAGCCCTTGGCGCTCGGGGACTGCTTACGG TCAACGTGGGCGGCAGCCGCTTCGTGCTCTCGCAGCAGGCGCTGTCTGCTTCCCGACA CGCGCCTTGGCAAGCTGGCCGTGGTGGTCTTCTACCGCCGCCCGGGGCCCTGGCCG CCGTGCCAGCCCTCTGGAGCTNTGCGACGATGCCAACCCGTGGACAACGAGTACTTCT TCGACCGCAGCTCGCAGGCGTTCGATATGTNCTGCACTACTACCGCACCGGNGCCTGC ATGTCATGGAGCAGCTGTGCGCGCTCTTCTTNTGCAAGATCCAGTACTGGNGCATCG ATGAGCTCAGCATCGATTCTGTGTCAGGNACAGATCTTCAGAAGAAAGAGCTGATGAA CTTAGACTTCAGAAG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014379 unedited</p> <pre>TTGGCCGCGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTCGATATTTTATTG ATTTAAAGGTGCTTATTTTAAATTTTTACATATCTGAAATCCGGATGCATTTTACAGTTA ATGGCATCTTACAATTGACTGGCATCTTTCTTTCTTGGTAGTGCATAGCATAATATGATG TCTTAAATAGAGTTTATGAAATACCTTATAGCTATATATTAAAGCAGTCCCAATGTTTA TTTCTTATCACCATTCACCCCTGGCAAAGGCCTTCTAGGCTTTTTTCCCTAACATCTCA CCCCATGAAATGTTAATACCACAGATATACTCAATATGCTTATCTGTGTTTTGTAATG AAGTGATAAAGATTTTTTCTCAAGAACCAATTTTCTTCCCCTTGGGGGCTCTATTATA TTGAAATGTAGGTATTAAGTGATGCATTCTTGTATTCTTAGGTTGTAGAATCTCAT TACTAAAATAATGGGAATCATGAGCTAGTCTTAGCTTAGAGGTTTTGGCTTAAATTA TATAATAACAATGTCTAGGAATTTGTTGTTATGATGAATGTCAAATGCCTGCAAAGTTT GAACATTTGCTATTTACCCCAACAATCAGAAAGCTGCCATAGTATTTTTTTGTTAAACA GTAAAAGATCTTCAAGTTCATCCAGTGATGTCATTTAACATATATTTCCATTTTATGAA ATAAGATTATTTAGTAATTCAGTGTAAGAAATTAAGATGTTCACTACCTCACTTTTACA TATTCATTATTTTAAAGCCATAATGTGAACAATACATCCATAAAGAGACATTTAAGACCA TCTGATATTCATGAAANTACTAGAANTATGCTGNNTTATGCTCCACATACTACACTCAGN NTGGAGAATGAGATGTGCNNATGTGAAGTCTTGNGTAGACTAGTACTGCATCTAAGCAGT TGGGATCCCACTCTATGTATA</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014379
<b>Insert Size:</b>	3790 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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]