

## Product datasheet for **SC306755**

### **KCNG4 (NM\_172347) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNG4 (NM_172347) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNG4
Synonyms:	KV6.3; KV6.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >SC306755 representing NM\_172347.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCCATGCCTCCAGAGACGGGGCCATGCCAGACACCACCCTATGGTTCCACAGCCCTTGG
AGTCAGCTCCTGTCCAGCCCCATGGAGACGCCGTCCATCAAGGGCCTTTACTACCGAGGGTGCGGAAG
GTGGGTGCCCTGGACGCCCTCCCAAGTGGACCTGAAGAAGGAGATCCTGATCAACGTGGGGGCAGGAGG
TATCTCTCCCTGGAGCACACTGGACCGTTCGCCGTGAGCCGCTGAGCAAACCTCAGGCTCTGTCCGG
AGCTACGAGGAGATCGTGCAGCTCTGCGATGATTACGACGAGGACAGCCAGGAGTTCTTCTCGACAGG
AGCCCCAGCGCCTTCGGGGTGTCTGTGAGCTTCTGGCGGCCGGGAAGCTGGTGTCTGACAGGAGATG
TGCGCGCTGTCTTCCAGGAGGAGCTGGCCTACTGGGCATCGAGGAGGCCACCTGGAGAGGTGCTGC
CTGCGGAAGCTGTGAGGAAGCTGGAGGAGCTGGAGGAGCTGGCAAGCTGCACAGGGAGGACGACTG
AGGCAGCAGAGGGAGACCCGCCGCCCGCTCGCACTCCTCGCGTGGGGCTGTGCATGAACCGGCTG
CGCGAGATGGTGGAAAACCCGCAGTCCGGGCTGCCGGGAAGGTCTTCGCTTGCCTCTCCATCCTCTTC
GTGGCCACCACAGCCGTAGCCTGTGTGTGAGCACCATGCCCGACCTCAGGGCAGAGGAGGACCAGGGC
GAATGCTCTCGGAAGTGCTACTATATTTTCATCGTGGAGACCATCTGCGTGGCCTGGTTCTCCCTGGAG
TTCTGCCTGCGGTTTGTCCAGGCCAAGACAAGTGTGAGTTCTTCCAGGGGCCCTGAACATCATCGAC
ATCCTGGCCATCTCCCACTACTACGTGTGCTGGCGGTGTCTGAGGAGCCCCGGAGGACGGCGAGAGG
CCGAGCGGGAGCTCCTACCTGGAGAAGTGGGGCTGGTCTGCGTGTGCTGCGAGCGCTGCCATCCTC
TACGTGATGCGCCTGGCTCGCCACTCGCTGGGGCTGCAGACGCTGGGGCTCACCGTGCGCCGTTGCACA
CGTGAGTTCGGCTGCTCCTTCTTCTTCTGGCCGTGGCCATCACCTCTTCTCCCTTTGGTCTACGTG
GCCGAGAAGGAGTCCGGGCGGGTGGAGTTCACAGCATCCCCGCCTCTATTGGTGGGCCATCATC
TCCATGACAACGGTGGGCTACGGGGACATGGTGCCCGCAGTGTGCCAGGCCAGATGGTGGCCCTCAGC
AGCATCCTGAGCGGGATCCTCATCATGGCCTTCCCGGCCAGTCTATCTTCCACACCTTCTCCACTCC
TACCTGGAGCTCAAGAAGGAGCAGGAGCAGCTTACGGCCCGCTCCGCCACCTCCAAAACACCGTCCA
GCCAGTGAATGTGAACCTCTGGACCCCATGTGGCCAGTGAACATGAGCTCATGAACGATGTCAATGAC
CTAATCTGGAGGGCCAGCCTTGCTATCATGCACATGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_172347

**Insert Size:** 1560 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_172347.2](#)

**RefSeq Size:** 2779 bp

**RefSeq ORF:** 1560 bp

**Locus ID:** 93107

**UniProt ID:** [Q8TDN1](#)

**Cytogenetics:** 16q24.1

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

**MW:** 59 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 channel, voltage-gated, subfamily G. This member functions as a modulatory subunit. The gene has strong expression in brain. Multiple alternatively spliced variants have been found in normal and cancerous tissues. [provided by RefSeq, Jul 2008]