

## Product datasheet for **SC309151**

### **KCNC4 (NM\_153763) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNC4 (NM_153763) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNC4
Synonyms:	HKSHIIC; KSHIIC; KV3.4; MGC126818
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC309151 representing NM\_153763.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATCAGCTCGGTGTGTCTCCTCCTACCGCGGGCGCAAGTCGGGGAACAAGCCTCCGTCCAAAACA
TGCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGCGGCACGCGA
CATGAGACCTACCGCAGCACCTGCGCACCTACCGGGAACCCGCTCGCCTGGCTGGCCGACCCCGAC
GGCGGGGGCCGGCCCGAGACCGATGGCGCGGTGTGGGTAGCAGCGGCAGCAGCGCGCGGGGGTGC
GAGTTCTTCTTCGACAGGCACCCGGCGTCTTCGCCTACGTGCTCAACTACTACCGCACCCGCAAGCTG
CACTGCCCGCGGACGTGTGCGGGCCGCTCTTCGAAGAGGAGCTCACCTTCTGGGCATCGACGAGACC
GACGTGGAACCTGCTGCTGGATGACCTACCGGCAGCACCGGCAGCCGAGGAGGCGCTCGACATCTTC
GAGAGCCCGACGGAGGCGGCAGCGCGCGGGGCCAGCGACGAGGCCGGCGACGATGAGCGGGAGCTG
GCCCTGCAGCGACTGGGCCCCACGAGGGAGGCGCGGCCATGGCGCCGGTCTGGGGCTGCCCGGC
TGGCAGCCCCGCATGTGGCGCTCTTCGAGGATCCCTACTCCTCCGGGCCGCTAGGGTAGTGGCCTTT
GCCTCTCTCTTCATCCTGGTCTCCATCACCCTTTCTGCCTGGAGACCCATGAGGCCTTAATATC
GACCGCAACGTGACAGAGATCCTCCGCGTAGGGAACATACCAGCGTGCCTCCGGCGGGAGGTAGAG
ACAGAGCCCATCCTGACTACATCGAGGGCGTATGTGTGCTGTGGTTCACACTGGAGTTCCTGGTGCGC
ATCGTGTGCTGCCCGACACGCTGGACTTCGTCAAGAACCTGCTCAACATCATCGACTTTGTGGCCATC
CTGCCCTTCTACCTGGAGGTGGGGCTGAGCGCCCTGTATCCAAGGGCGCCCGACGTGCTGGGCTTC
CTGCGCGTGGTGCGCTTCGTGCGCATCCTGCGTATCTTCAAGCTCACACGCCACTTCGTGGGGTACGC
GTGCTGGGCCACACCTGAGGGCCAGCACCAATGAGTTCCTGCTGCTTATCATCTTCTGGCCCTGGGT
AATGACCACACCGACTTCAAGAACATCCCCATTGGCTTCTGGTGGCTGTGGTCACCATGACGACACTG
GGCTACGGAGACATGTACCCCAAGACGTGGTCAGGCATGCTGGTAGGGGCACTGTGTGACTGGCTGGC
GTGCTCACCATCGCCATGCCGGTGCCTGTATCGTCAACAACCTCGGCATGTACTACTCCCTGGCCATG
GCCAAGCAGAAGCTGCCAAGAAACGGAAGAAGCACGTGCCACGGCCGGCGCAGCTGGAGTACCCATG
TACTGCAAGTCTGAGGAGACTTCCCCCGGACAGCACCTGCAGTGATACCAGCCCCCTGCCCGGGAA
GAGGGTATGATCGAGAGGAAACGGCAGGTGAGATTAGGGTTGGGAAGGAAAATCCCTTTTCCCCCAG
TGGCCTAGGGAGTTTCAAATGGACCTCAGACCTGGGATTTGGCATGTGTTTTGTGTTGGGCTTCCT
AAGCATAAAGATGTGCCTTTATGA
AGCGGACCGACCGGTACCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
```

**Restriction Sites:** Sgfl-RsrII

**Plasmid Map:** □

**ACCN:** NM\_153763

**Insert Size:** 1749 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 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\\_153763.2](#)

**RefSeq Size:** 1855 bp

**RefSeq ORF:** 1749 bp

**Locus ID:** 3749

**Cytogenetics:** 1p13.3

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

**MW:** 64.5 kDa

**Gene Summary:**

The Shaker gene family of *Drosophila* encodes components of voltage-gated potassium channels and is comprised of four subfamilies. Based on sequence similarity, this gene is similar to the Shaw subfamily. The protein encoded by this gene belongs to the delayed rectifier class of channel proteins and is an integral membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. It generates atypical voltage-dependent transient current that may be important for neuronal excitability. Multiple transcript variants have been found for this gene. [provided by RefSeq, Jul 2010]

Transcript Variant: This variant (2) is missing two 3' end exons found in transcript variant 1, resulting in an isoform (b) that is shorter with a distinct C-terminus compared to isoform a.