

Product datasheet for **SC310765**

KCNC4 (NM_001039574) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNC4 (NM_001039574) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNC4
Synonyms:	C1orf30; HKSHIIC; KSHIIC; KV3.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

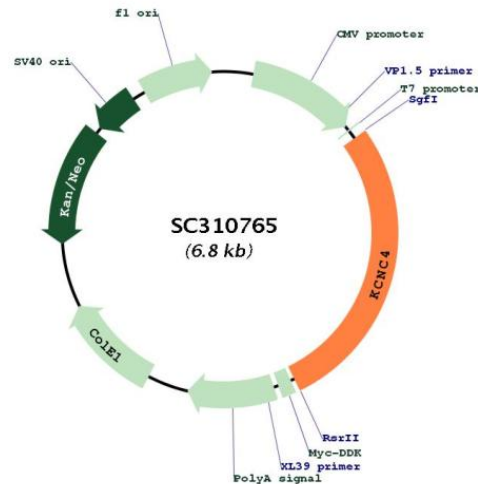


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Fully Sequenced ORF: >SC310765 representing NM_001039574.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCAGCTCGGTGTGTCTCCTCCTACCGCGGGCGCAAGTCGGGGAACAAGCCTCCGTCCAAAACA
TGCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGGCGGCACGCGA
CATGAGACCTACCGCAGCACCTGCGCACCTACCGGGAACCCGCTCGCCTGGCTGGCCGACCCCGAC
GGCGGGGGCCGGCCGAGACCGATGGCGCGGTGTGGGTAGCAGCGGCAGCAGCGCGCGGGGGGTGC
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CACTGCCCGCGGACGTGTGCGGGCCGCTCTTCGAAGAGGAGCTCACCTTCTGGGCATCGACGAGACC
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CGCTCCACCACTCGAGACAGAAACAAGAAGGCAGCTGCCTGCTTCTGCTCAGCACTGGGGACTATGCC
TGCGCCGATGGTAGTGTCCGAAAGAGACTGCCAAGACGCCCTCTCGTCCAACATGCCAGGCTGAA
GTCCTCACCCCTCTTAA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-RsrII

Plasmid Map:


ACCN: NM_001039574

Insert Size: 1881 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_001039574.2](#)

RefSeq Size: 3755 bp

RefSeq ORF: 1881 bp

Locus ID: 3749

UniProt ID: [Q03721](#)

Cytogenetics:	1p13.3
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	68.8 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site that results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (c) has a shorter and distinct C-terminus, compared to isoform a.</p>