OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC211017

KCNC4 (NM_153763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNC4 (NM_153763) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNC4
Synonyms:	HKSHIIIC; KSHIIIC; KV3.4; MGC126818
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC211017 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCAGCTCGGTGTGTGTCTCCTCCTACCGCGGGCGCAAGTCGGGGAACAAGCCTCCGTCCAAAACAT
GTCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGGCGGCACGCGACA
TGAGACCTACCGCAGCACCCTGCGCACCCTACCGGGAACCCGCCTCGCCTGGCTGGCCGACCCCGACGGC
GGGGGCCGGCCCGAGACCGATGGCGGCGGTGTGGGTAGCAGCGGCAGCAGCGGCGGCGGGGGCTGCGAGT
TCTTCTTCGACAGGCACCCGGGCGTCTTCGCCTACGTGCTCAACTACTACCGCACCGGCAAGCTGCACTG
CCCCGCGGACGTGTGCGGGCCGCTCTTCGAAGAGGAGCTCACCTTCTGGGGCATCGACGAGACCGACGTG
GAACCCTGCTGCTGGATGACCTACCGGCAGCACCGCGACGCCGAGGAGGCGCTCGACATCTTCGAGAGCC
CGGACGGAGGCGGCAGCGGCGCGGGGCCCAGCGACGAGGCCGGCGACGATGAGCGGGAGCTGGCCCTGCA
GCGACTGGGCCCCCACGAGGGAGGCGCGGGCCATGGCGCCGGGTCTGGGGGCTGCCGCGGCTGGCAGCCC
CGCATGTGGGCGCTCTTCGAGGATCCCTACTCCTCCCGGGCCGCTAGGGTAGTGGCCTTTGCCTCTCTCT
TCTTCATCCTGGTCTCCATCACCACTTTCTGCCTGGAGACCCATGAGGCCTTTAATATCGACCGCAACGT
GACAGAGATCCTCCGCGTAGGGAACATCACCAGCGTGCACTTCCGGCGGGAGGTAGAGACAGAGCCCATC
CTGACCTACATCGAGGGCGTATGTGTGCTGTGGTTCACACTGGAGTTCCTGGTGCGCATCGTGTGCTGCC
CCGACACGCTGGACTTCGTCAAGAACCTGCTCAACATCATCGACTTTGTGGCCATCCTGCCCTTCTACCT
GGAGGTGGGGCTGAGCGGCCTGTCATCCAAGGCGGCCCGCGACGTGCTGGGCTTCCTGCGCGTGGTGCGC
TTCGTGCGCATCCTGCGTATCTTCAAGCTCACACGCCACTTCGTGGGGCTACGCGTGCTGGGCCACACCC
TGAGGGCCAGCACCAATGAGTTCCTGCTGCTTATCATCTTCCTGGCCCTGGGTGTGCTCATCTTTGCCAC
CATGATCTACTACGCTGAGCGCATTGGGGCCAGGCCCTCCGACCCTCGGGGTAATGACCACACCGACTTC
AAGAACATCCCCATTGGCTTCTGGTGGGCTGTGGTCACCATGACGACACTGGGCTACGGAGACATGTACC
CCAAGACGTGGTCAGGCATGCTGGTAGGGGCACTGTGTGCACTGGCTGGCGTGCTCACCATCGCCATGCC
GGTGCCTGTCATCGTCAACAACTTCGGCATGTACTACTCCCTGGCCATGGCCAAGCAGAAGCTGCCCAAG
AAACGGAAGAAGCACGTGCCACGGCCGGCGCAGCTGGAGTCACCCATGTACTGCAAGTCTGAGGAGACTT
CCCCCCGGGACAGCACCTGCAGTGATACCAGCCCCCCTGCCCGGGAAGAGGGTATGATCGAGAGGAAACG
GGCAGGTGAGATTAGGGGTTGGGAAGGAAAATCCCTTTTCCCCCAGTGGCCTAGGGAGTTTCCAAATGGA
CCTCAGACCTTGGGATTTGGCATGTGTTTTGTGTGGGGCTTCCCTAAGCATAAAGATGTGCCTTTA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211017 protein sequence
Red=Cloning site Green=Tags(s)

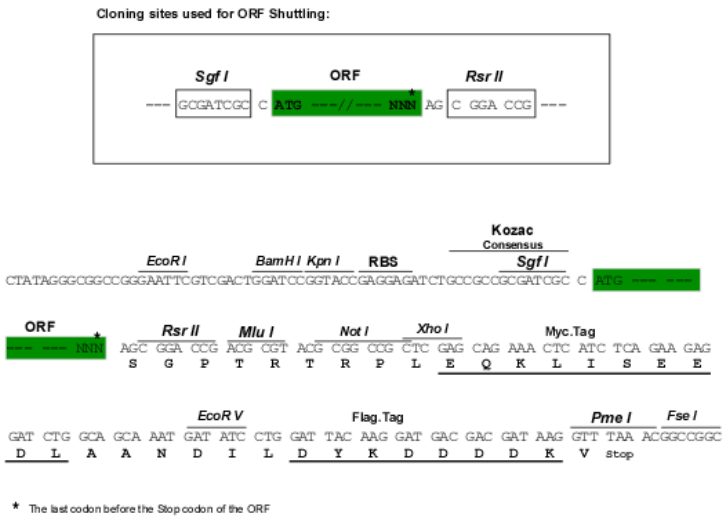
MISSVCVSSYRGRKSGNKPPSKTCLKEEMAKGEASEKIIINVGGTRHETYRSTLRTLPGTRLAWLADPDG
GGRPETDGGGVGSSGSSGGGGCEFFFDRHPGVFAYVLNYYRTGKLHCPADVCGPLFEEELTFWGIDETDV
EPCCWMTYRQHRDAEEALDIFESPDGGGSGAGPSDEAGDDERELALQRLGPHEGGAGHGAGSGGCRGWQP
RMWALFEDPYSSRAARVVAFASLFFILVSITTFCLETHEAFNIDRNVTEILRVGNITSVHFRREVETEPI
LTYIEGVCVLWFTLEFLVRIVCCPDTLDFVKNLLNIIDFVAILPFYLEVGLSGLSSKAARDVLGFLRVVR
FVRILRIFKLTRHFVGLRVLGHTLRASTNEFLLLIIFLALGVLIFATMIYYAERIGARPSDPRGNDHTDF
KNIPIGFWWAVVTMTTLGYGDMYPKTWSGMLVGALCALAGVLTIAMPVPVIVNNFGMYYSLAMAKQKLPK
KRKKHVPRPAQLESPMYCKSEETSPRDSTCSDTSPPAREEGMIERKRAGEIRGWEGKSLFPQWPREFPNG
PQTLGFGMCFVWGFPKHKDVPL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6809_e03.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_153763

ORF Size: 1746 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 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

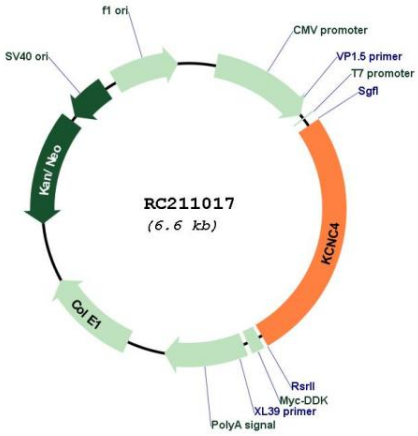
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_153763.2, NP_720198.1
RefSeq Size:	1855 bp
RefSeq ORF:	1748 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]

Product images:



Circular map for RC211017