

Product datasheet for **RG217719**

KCNC4 (NM_001039574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNC4 (NM_001039574) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNC4
Synonyms:	C1orf30; HKSHIIC; KSHIIC; KV3.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217719 representing NM_001039574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCAGCTCGGTGTGTCTCCTCTACCGCGGGCGAAGTCGGGAACAAGCCTCCGTCAAAAACAT
 GTCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGGCGGCACCGGACA
 TGAGACCTACCGCAGCACCCCTGCGCACCCCTACCGGAACCCGCTCGCCTGGCTGGCCGACCCCGACGGC
 GGGGGCCGGCCGAGACCGATGGCGGGGTGTGGGTAGCAGCGGCAGCAGCGGGCGGGGGCTGCGAGT
 TCTTCTCGACAGGCACCCGGGCGTCTTCGCTACGTGCTCAACTACTACCGCACCGGAAGCTGCACTG
 CCCCAGGACGTGTGGGGCCGCTCTTCGAAGAGGAGCTCACCTTCTGGGGCATCGACGAGACCGACGTG
 GAACCCTGCTGCTGGATGACCTACCGGCAGCACCGCGACCCGAGGAGGCGCTCGACATCTTCGAGAGCC
 CGGACGGAGGCGCAGCGCGGGGCCAGCGACGAGGCCGGCGACGATGAGCGGGAGCTGGCCCTGCA
 GCGACTGGGCCCCACGAGGGAGGCGGGGCCATGGCGCCGGGTCTGGGGCTGCCGCGGCTGGCAGCCC
 CGCATGTGGGCGCTCTTCGAGGATCCCTACTCCTCCCGGGCCGCTAGGGTGTGGCCTTTGCCTCTCTCT
 TCTTCATCCTGGTCTCCATCACCCTTTCTGCCTGGAGACCCATGAGGCCTTTAATATCGACCGCAACGT
 GACAGAGATCCTCCGCTAGGGAACATCACCAGCGTCACTTCCGGCGGGAGGTAGAGACAGAGCCCATC
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 CCGACACGCTGGACTTCGTAAGAACCTGCTCAACATCATCGACTTTGTGGCCATCTGCCCTTCTACCT
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 TTCGTGCGCATCCTGCGTATCTCAAGCTCACACGCCACTTCGTGGGGCTACGCGTGTGGCCACACCC
 TGAGGCCACACCAATGAGTTCCTGCTGCTTATCATCTTCTGGCCCTGGGTGTGCTCATCTTTGCCAC
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 AAGAACATCCCCATTGGCTTCTGGTGGGCTGTGGTCACCATGACGACACTGGGCTACGGAGACATGTACC
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 GGTGCCTGTATCGTCAACAACCTTCGGCATGTACTACTCCCTGGCCATGGCCAAGCAGAAGCTGCCCAAG
 AAACGGAAGAAGCACGTGCCACGGCCGGCGCAGCTGGAGTCACCCATGTACTGCAAGTCTGAGGAGACTT
 CCCCCGGGACAGCACCTGCAGTGATACCAGCCCCCTGCCGGGAAGAGGGTATGATCGAGAGGAAACG
 GGCAGACTCTAAGCAGAATGGCGATGCCAACGCAGTGTGTCTGATGAGGAGGGAGCTGGCCTACCCAA
 CCCCTGGCCTCTCCCCACCCCGAGGAGCGCCGGGCCCTGCGACGCTCCACCCTCGAGACAGAAACA
 AGAAGGCAGCTGCTTCTGCTCAGCACTGGGACTATGCCTGCGCCGATGGTGTGTCGGAAAGA
 GACCTGCCAAGACGCCCTCTCGTCCAACATATGCCAGGCTGAAGTCTCACCCCTCTCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217719 representing NM_001039574
 Red=Cloning site Green=Tags(s)

MISSVCVSSYRGRKSGNKPPSKTCLKEEMAKGEASEKIIINVGGRHETRYRSTLRRLPGTRLAWLADPDG
 GGRPETDGGVSGSSGGGCEFFDRHPGVFAYVLNYRTGKLGHPADVCGPLFEEELTFWIDETDV
 EPCCWMTYRQHRDAEEALDIFESPDGGSGAGPSDEAGDDERELALQRLGPHEGGAGHGAGSGGCRGWQP
 RMWALFEDPYSSRAARVAFASLFFILVSIITTFCLTHEAFNIDRNVTEILRVGNITSVHFRREVETEPI
 LTYIEGVCVLFWTFLEFLVRIVCCPDTLDFVKNLLNIIDFVAILPFYLEVGLSGLSSKAARDVLFGLRVVR
 FVRILRIFKLRHFVGLRVLGHTLRASNEFLLLIIFLALGVLFATMIYYAERIGARPSDPRGNDHTDF
 KNIPIGFWAVVTMTTLGYDMYPKTWSGMLVGALCALAGVLTIAAMPVPVIVNFMYYSLAMAKQLPK
 KRKKHVPRPAQLESMPYCKSEETSPRSDTSCSDTSPAREEGMIERKRADSKQNGDANAVLSDEEGAGLTQ
 PLASSPTPEERRALRRSTTRDRNKAAACFLSTGDYACADGSRKETCQDALSSNYAQAEVLTLS

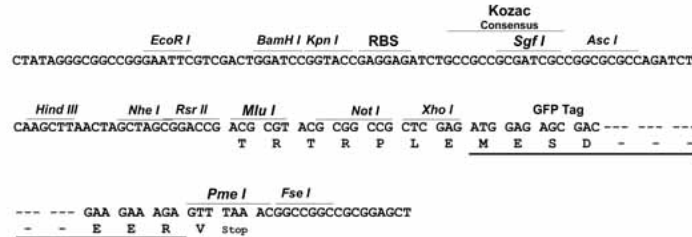
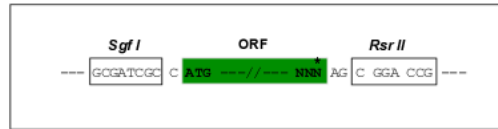
SGPTRRRLE - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_001039574

ORF Size: 1878 bp

OTI Disclaimer: 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_001039574.3](#)
RefSeq Size: 3023 bp

RefSeq ORF: 1881 bp

Locus ID: 3749

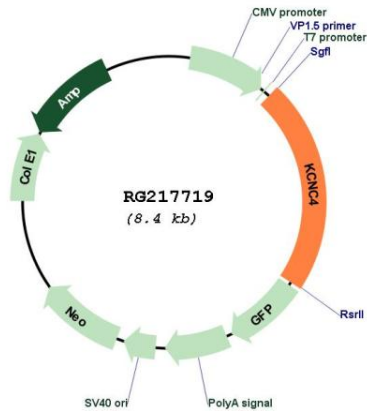
UniProt ID: [Q03721](#)

Cytogenetics: 1p13.3

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

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 RG217719