

Product datasheet for **RG209695**

KCN G3 (NM_133329) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCN G3 (NM_133329) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCN G3
Synonyms: KV6.3; KV10.1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209695 representing NM_133329
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCTTCGGGCGCAGCGGGCGGCTCGGTGGTGTGTAACGTGGGCGGCGCCCGGATTTCGCTGTCCC
 GGGAGCTGCTGAAGGACTTCCCCTGCGCCGCGTGAGCCGGTGCACGGTGCCTCCGAGCGCAGCT
 GCTCGAGGTGTGCGAGACTACGACCGGAGCGCAACGAGTACTTCTCGACCGGACTCGGAGGCCTTC
 GGCTTCATCCTGCTCTACGTGCGCGCCACGGCAAGCTGCGCTTCGCGCCGGATGTGCGAGCTCTCT
 TCTACAACGAGATGATCTACTGGGCTGGAGGGCGCGCACCTCGAGTACTGCTGCCAGCGCCGCTCGA
 CGACCGCATGTCCGACACCTACACCTTCTACTCGCCGACGAGCCGGGCTGCTGGGCGCGACGAGGCG
 CGCCCCGGCGGGCCGAGGCGGCTCCCTCCAGGCGCTGGCTGGAGCGCATGCGGCGGACCTTCGAGGAGC
 CCACGTCGTCGCTGGCCGCGCAGATCCTGGCTAGCGTGTGCGTGGTGTTCGTGATCGTGTCCATGGTGGT
 GCTGTGCGCCAGCACGTTGCCGACTGGCGCAACGCGCCGCAACCGCAGCCTGGATGACCGGAGC
 AGGTAATCCCGCCGCCCTGGGAGGGAGCCCTCCGGATAATTGAAGCTATCTGCATAGGTTGGTTCAGT
 CCGAGTGCATCGTGAGGTTCAATGTCTCCAAAAACAAGTGTGAGTTTGTCAAGAGACCCCTGAACATCAT
 TGATTTACTGGCAATCACGCCGATTACATCTCTGTGTTGATGACAGTGTTCACAGGCGAGAAGCTCAA
 CTCCAGAGGGCTGGAGTACCTTGAGGGTACTTAGAATGATGAGGATTTTTGGGTGATTAAGCTTGCCC
 GTCACCTTCAATGGTCTTCAGACACTCGGTTTGACTCTCAAACGTTGCTACCGAGAGATGGTTATGTTACT
 TGTCTTCAATTTGTTGCCATGGCAATCTTTAGTGCACCTTCTCAGCTTCTTGAACATGGCTGGACCTG
 GAAACATCCAACAAGGACTTTACCAGCATTCTGCTGCCTGCTGGTGGTATTCTCTATGACTACAG
 TTGGCTATGGAGATATGTATCCTATCACAGTGCCTGGAAGAATCTTGAGGAGTTTGTGTTGTCAGTGG
 AATTGTTCTATTGGCATTACCTATCACTTTTATCTACCATAGCTTTGTGCAGTGTATCATGAGCTCAAG
 TTTAGATCTGCTAGGTATAGTAGGAGCCTCTCCACTGAATTCCTGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG209695 representing NM_133329
 Red=Cloning site Green=Tags(s)

MTFGRSGAASVVLNVGGARYSL SRELLKDFPLRRVSR LHGCRSERDVLVCDDYDRERNEYFFDRHSEAF
 GFILLYVRGHGKLRFA PRMCELSFY NEMIYWGLEG AHLEYCCQRR LDDRMSD TYTFYSADEPVLGRDEA
 RPGGAEAAPSRRLERMRRTFEEPTSS LAAQILASVSVFVIVSMVVLCASTLPDWRNAAADNRSLDDRS
 RYSAGPGREPSGIEAICIGWFTAECIVRFIVSKNKCFV KRPLNIIDLLAITPYIYISVLMTVFTGENSQ
 LQRAGVTLRVL RMMRIFWVIK LARHFIGLQTLGLTLKRCYRE MVMLLVFICVAMAI FSALSQ LLEHGLDL
 ETSNKDFTSIPAACWVWII SMTTVGYGDMYPITV PGRILGGVCV VSGIVLLALPITFIYHSFVQCYHELK
 FRSARYSRSLSTEF LN

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_133329

ORF Size: 1308 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_133329.6](#)

RefSeq Size: 3824 bp

RefSeq ORF: 1311 bp

Locus ID: 170850

UniProt ID: [Q8TAE7](#)

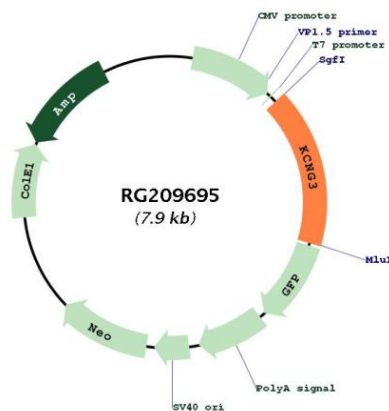
Cytogenetics: 2p21

Domains: BTB, K_tetra, ion_trans

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

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 is a gamma subunit functioning as a modulatory molecule. Alternative splicing results in two transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209695