

Product datasheet for **SC122037**

KCNG2 (NM_012283) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | KCNG2 (NM_012283) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | KCNG2 |
| Synonyms: | KCNF2; KV6.2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_012283, the custom clone sequence may differ by one or more nucleotides |

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ATGGAGCCATGGCCCTGCTCCCCGGGCGGGCGGGCGGGACCCGCGCCCGGCACGTATCATCAACGTGG
GCGGCTGCCCGTGCCTGGCATGGGCGCGCTGGCGGATGCCCCCTCGCGCGCTGGAGCGCTGCG
CGCCTGCCGCGGCCACGACGACCTGCTGCGCGTGTGTGACGACTACGACGTGAGCCGCGACGAGTTCTTC
TTCGACCCGAGCCCGTGCCTTCCGCGCCATCGTGGCGTTTTGCGCGCAGGGAAGCTGCGACTGCTGC
GGGGCCCGTGCCTTCCGCGACGAGCTGGCCTACTGGGCGATCGACGAGGCGCGCTGGAGCG
CTGCTGCCTGCGCCGCTGCGCCCGCGAGGAGGAGGGCGCGAGGCCCGCGCGGGCCGACGGAGCGC
GGGGCGCAGGGGAGCCCGCGCGGCCCTGGGACCTCGGGGGCGGCTGCAGCGCGCCGGCGCGCCTGC
GCGACGTGGTGGACAACCCGCACTCGGGGCTGGCGGGCAAGCTCTTCGCCTGCGTGTCCGTGCTTCGT
GGCCGTACAGGCCGTGGGCTCTGCCTGAGCACCATGCCGGACATCCGCGCCGAGGAGGAGCGGGCGAG
TGCTCCCCAAGTGCCGAGCCTGTTGCTGCTGGAGACCGTGTGCGTGGCCTGGTTCTCCTTCGAGTTCC
TGCTGCGCTCCCTGCAGGCCGAGAGCAAGTGCGCCTTCTGCGCGGCCACTCAACATCATTGACATCCT
GGCGCTCTGCCGTTCTACGTGTGCTGCTGCTGGGGTGGCGGAGGCCCGGGCGGACCAAGCTCCTG
GAGCGCGGGGCTGGTGTGCGCTGCTGCGTGCCTGCGCGTGCCTACGTGATGCGCCTGGCGCGCC
ACTCGTGGGGTGCCTGCTGGGCTGACCATGCGCCGCTGCGCGCGGAGTTGCGGCTGCTGCTGCT
GTTCTCTGCGTGGCCATGGCGCTTTCGCGCCACTGGTGCACCTGGCCGAGCGAGCTGGGCGCGCGC
CGCGACTTCTCCAGCGTGCCCGCAGTATTGGTGGGCGCTCATCTCCATGACCACCGTGGGCTACGGCG
ACATGGTCCCGCGCAGCCTGCCCGGCGAGTGGTGGCGCTCAGCAGCATCCTCAGCGCATCCTGCTCAT
GGCCTTCCCGGTACCTCCATCTTCCACACCTTTTCGCGCTCCTACTCCGAGCTCAAGGAGCAGCAGCAG
CGCGCGCCAGCCCCGAGCCGGCCCTGCAGGAGGACAGCAGCACTCGGCCACAGCCACCGAGGACAGCT
CGCAGGGCCCCGACAGCGCGGCTGGCCGACGACTCCGCGGATGCGCTGTGGTGGCGGAGGGCGCTG
A

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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_012283 unedited AAGAAGTTCAGATTTGTAACGACTCATATAGGCGGCACGCGATTGCCCCTTAGGAGCCT GGCCCTGCTCCCCGGGCGGCGGGGACCCGCGCCCGGCACGTCATCATCAACGTGG GCGGCTGCCGCGTGCGCCCGCATGGGCCGCGCTGGCGCGATGCCCCCTCGCGCGCTGG AGCGCCTGCGCGCCTGCCGCGGCCACGACGACCTGCTGCGCGTGTGTGACGACTACGACG TGAGCCCGCAGAGTTCTTCTTCGACCCGAGCCCGTGCGCCTTCCGCGCCATCGTGGCGC TTTTGCGCGCAGGGAAGCTGCGACTGCTGCGGGGCCCGTGCGCGCTGGCCTTCCGCGACG AGCTGGCCTACTGGGGCATCGACGAGGCGCGCCTGGAGCGCTGCTGCCTGCGCCGCTGC GCCCGCGAGGAGGAGGCGGCCGAGGCCCGCGGGGGCCGACGAGCGGGGGCGCATG GGAGCCCGGCGCGCCCTGGGACCTCGGGGGCGGCTGCAGCGCGGCCGCGCGCCCTGC GCGACGTGGTGGACAACCCGCACTCGGGGCTGGCGGGCAAGCTCTTCGCCTGCGTGTCCG TGTCTTCTGCGCGTACGCGCCGTGGGCTCTGCCTGAGCACCATGCCGGACATCCGCG CCGAGGAGGAGCGGGGCGAGTGTCCCCCAAGTCCCGCAGCCGGTTCGTGCTGGAGACCG TGTGCGTGGCCTGTTCTCCTTCGAGTTCTGCTGCGCTCCCTGCGGGCCGAGAGCAAGT GCGCCTTCTGCGCGCGCACTCAACATCATTGACATCCTGGCGCTCCTGCCGTTCTACG TGTCGCTGCTGCGGGCTGGGGCGCAGCCAGGACCAAGCTCCT</p> |
| Restriction Sites: | Please inquire |
| ACCN: | NM_012283 |
| Insert Size: | 1400 bp |
| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| 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: | <ol style="list-style-type: none"> 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_012283.1 , NP_036415.1 |
| RefSeq Size: | 1401 bp |
| RefSeq ORF: | 1401 bp |

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| Locus ID: | 26251 |
| UniProt ID: | Q9UJ96 |
| Cytogenetics: | 18q23 |
| Protein Families: | Druggable Genome, Ion Channels: Potassium, 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 of the voltage-gated potassium channel. The delayed-rectifier type channels containing this subunit may contribute to cardiac action potential repolarization. [provided by RefSeq, Jul 2008] |