

Product datasheet for SC317985

KCNA3 (NM_002232) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: KCNA3 (NM_002232) Human Untagged Clone

Tag: Tag Free Symbol: KCNA3

Synonyms: HGK5; HLK3; HPCN3; HUKIII; KV1.3; MK3; PCN3

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

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





Fully Sequenced ORF:

>NCBI ORF sequence for NM_002232, the custom clone sequence may differ by one or more nucleotides

ATGGACGAGCGCCTCAGCCTTCTGCGCTCGCCGCCGCCCCTCAGCCCGCCACCGCGCCACCCTCCTC AGCGCCCAGCGAGCAGCGGCGGTGCCCACACGCTGGTGAACCACGGCTACGCGGAGCCCGCCGCAGGCCG CGAGCTGCCGCCCGACATGACCGTGGTGCCCGGGGACCACCTGCTGGAGCCGGAGGTGGCCGATGGTGGA GGGGCCCCGCCTCAAGGCGGCTGTGGCGGCGGCGGCTGCGACCGCTACGAGCCGCTGCCGCCCTCACTGC CGGCCGCGGCGAGCAGGACTGCTGCGGGGAGCGCGTGGTCATCAACATCTCCGGGCTGCGCTTCGAGAC GCAGCTGAAGACCCTTTGCCAGTTCCCCGAGACGCTGCTGGGCGACCCCAAGCGGCGCATGAGGTACTTC GACCCGCTCCGCAACGAGTACTTCTTCGACCGCAACCGGCCCAGCTTCGACGCCATCCTCTACTACTATC AGTCCGGGGGCCGCATCCGCCGGCCGGTCAACGTGCCCATCGACATTTTCTCCGAGGAGATCCGCTTCTA CCAGCTGGGCGAGGAGGCCATGGAGAAGTTCCGCGAGGACGAGGGCTTCCTGCGGGAGGAGGAGCGGCCC GGGGCATCGCCATCGTGTCCGTGCTGGTCATCCTCATCTCCATTGTCATCTTCTGCCTGGAGACGCTGCC GGAGTTCCGCGACGAGAAGGACTACCCCGCCTCGACGTCGCAGGACTCATTCGAAGCAGCCGGCAACAGC ACGTCGGGGTCCCGCGCAGGAGCCTCCAGCTTCTCCGATCCCTTCTTCGTGGTGGAGACGCTGTGCATCA TCTGGTTCTCCTTCGAACTGCTGGTGCGGTTCTTCGCTTGTCCTAGCAAAGCCACCTTCTCGCGAAACAT CATGAACCTGATCGACATTGTGGCCATCATTCCTTATTTTATCACTCTGGGTACCGAGCTGGCCGAACGA CAGGGCAATGGACAGCCATGTCTCTGGCCATCCTGAGGGTCATCCGCCTGGTAAGGGTCTTCCGCA TCTTCAAGCTGTCGCGCCACTCCAAGGGGCTGCAGATCCTCGGGCAAACGCTGAAGGCGTCCATGCGGGA GCTGGGATTGCTCATCTTCTTCCTCTTTATTGGGGTCATCCTTTTCTCCAGCGCGGTCTACTTTGCCGAG GCAGACGACCCCACTTCAGGTTTCAGCAGCATCCCGGATGCCTTCTGGTGGGCAGTGGTAACCATGACAA CAGTGGGTTACGGCGATATGCACCCAGTGACCATAGGGGGCAAGATTGTGGGATCTCTCTGTGCCATCGC CGGTGTCTTGACCATCGCATTGCCAGTTCCCGTGATTGTTTCCAACTTCAATTACTTCTACCACCGGGAG ACAGAAGGGGAAGACCAATCCCAGTACATGCACGTGGGAAGTTGCCAGCACCTCTCCTCTTCAGCCGAGG AGCTCCGAAAAGCAAGGAGTAACTCGACTCTGAGTAAGTCGGAGTATATGGTGATCGAAGAGGGGGGTAT GAACCATAGCGCTTTCCCCCAGACCCCTTTCAAAACGGGCAATTCCACTGCCACCTGCACCACGAACAAT AATCCCAACTCTTGTGTCAACATCAAAAAGATATTCACCGATGTTTAA

Restriction Sites: Please inquire ACCN: NM_002232

1111_00225

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

KCNA3 (NM_002232) Human Untagged Clone - SC317985

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NM 002232.3, NP 002223.3

 RefSeq Size:
 3346 bp

 RefSeq ORF:
 1728 bp

 Locus ID:
 3738

 UniProt ID:
 P22001

Cytogenetics:

Domains: BTB, K_tetra, ion_trans

1p13.3

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

Gene Summary: Potassium 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. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class, members of which allow nerve cells to efficiently repolarize following an action potential. It plays an essential role in T-cell proliferation and activation.

This gene appears to be intronless and it is clustered together with KCNA2 and KCNA10 genes

on chromosome 1. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the functional protein.