

Product datasheet for **SC310020**

KCNH5 (NM_139318) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNH5 (NM_139318) Human Untagged Clone
Tag: Tag Free
Symbol: KCNH5
Synonyms: EAG2; H-EAG2; hEAG2; Kv10.2
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_139318, the custom clone sequence may differ by one or more nucleotides

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ATGCCGGGGGCAAGAGAGGGCTGGTGGCACCGCAGAACACATTTTTGGAGAACATCGTC
AGGCGCTCCAGTGAATCAAGTTTCTTACTGGGAAATGCCAGATTGTGGATTGGCCTGTA
GTTTATAGTAATGACGGTTTTGTAAACTCTCTGGATATCATCGAGCTGACGTCATGCAG
AAAAGCAGCACTTGACGTTTTATGTATGGGGAATTGACTGACAAGAAGACCATTGAGAAA
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AACAGAACCCTGTTGGTTTTATATGCAAATTGCACCAATAAGAAATGAACATGAAAAG
GTGGTCTTGTTCCTGTGTACTTTCAAGGATATTACGTTGTTCAAACAGCCAATAGAGGAT
GATTCACAAAAGGTTGGACGAAATTTGCCCGATTGACACGGGCTTTGACAAATAGCCGA
AGTGTGTTTGCAGCAGCTCACGCCAATGAATAAAACAGAGGTGGTCCATAAACATTC AAGA
CTAGCTGAAGTCTTCAGCTGGGATCAGATATCCTTCCTCAGTATAAAACAAGAAGCGCCA
AAGACGCCACCACACATTATTTTACATTATTGTGCTTTTAAAACACTTTGGGATTGGGTG
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AAGCAGAAACAATAGCCTGGCTGGTACTGGATAGTGTGGTGGACGTTATTTTTCTGGTT
GACATCGTTTTAAATTTTACACGACTTTCGTGGGGCCCGGTGGAGAGGTCATTTCTGAC
CCTAAGCTCATAAGGATGAACATCTGAAAACCTGGTTTTGTGATCGATCTGCTGTCTTGT
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CACTGGCTGGCCTGCATATGGTATAGCATCGGAGACTACGAGGTCATTGATGAAGTCACT
AACACCATCCAAATAGACAGTTGGCTCTACCAGCTGGCTTTGAGCATTGGGACTCCATAT
CGTACAATACCAGTGTGGGATATGGGAAGGAGGCCAGCAAGGATTCATTGTACGTG
TCCTCTCTACTTTACCATGACAAGCCTTACAACCATAGGATTTGGAAACATAGCTCCT
ACCACAGATGTGGAGAAGATGTTTTCGGTGGCTATGATGATGGTTGGCTCTCTTCTTAT
GCAACTATTTTTGGAAATGTTACAACAATTTCCAGCAAATGTATGCCAACCAACCGA
TACCATGAGATGCTGAATAATGTACGGGACTTCCTAAAACCTATCAGGTCCCAAAGGC
CTTAGTGAGCGAGTCATGGATTATATTGTCTCAACATGGTCCATGTCAAAGGCATTGAT
ACAGAAAAGGTCCTCTCCATCTGTCCCAAGGACATGAGAGCTGATATCTGTGTTCACTA
AACCGGAAGGTTTTAATGAACATCCTGCTTTTCGATTGGCCAGCGATGGGTGTCTGCGC
GCCTTGGCGGTAGAGTCCAAACCATTCACTGTGCTCCCGGGGACCTCATTTACCATGCT

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GGAGAAAGTGTGGATGCCCTCTGCTTTGTGGTGT CAGGATCCTTGGAAAGTCATCCAGGAT
GATGAGGTGGTGGCTATTTTAGGGAAGGGTGATGTATTTGGAGACATCTTCTGGAAGGAA
ACCACCCTTGCCCATGCATGTGCGAACGTCGGGCACTGACGACTGTGACCTACACATC
ATCAAGCGGGAAGCCTTGCTCAAAGTCTGGACTTTTATACAGCTTTTGCAAACCTCTTC
TCAAGGAATCTCACTCTTACTTGCAATCTGAGGAAACGGATCATCTTTGTAAGATCAGT
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CCCGTGGACCACCCAGTCAGAAAGCTCTCCAGAAGTTCAAGCAGCAGAAGGAGTCGGG
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TTACAGAATGGAGCCTCCATCACCGAACCCAGCGTGGTACTGTGTACAGATTACTCCC
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GCCATGGAACCAAGCCCAACGGCGGTGCTGACCAAAAATGTCTCAAAGTCAACAGCCCA
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ACAGATTCTTGTGACAGTGAATTACAAAAGTGACCTTCGTTTGGATAAGGCTGGGGAG
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ATCCCCGAGCAGGCTTACAGACCACACTGCAGGAAGTCAAACACGAACTCAAAGAGGAC
ATCCAGCTGCTCAGCTGCAGAATGACTGCCCTAGAAAAGCAGGTGGCAGAAATTTAAAA
ATACTGTCGGA AAAAGCGTACCCAGGCTCATCTCCAAATCCCAATGCCACTCCAA
GTACCCCCAGATACCATGTCAGGATATTTTAGTGTCTCAAGGCTGAATCACCTGAA
TCTGACAAAGATGAAATCCACTTTAA
    
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Restriction Sites:

Please inquire

ACCN:

NM_139318

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 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.

RefSeq: [NM_139318.3](#), [NP_647479.2](#)

RefSeq Size: 3308 bp

RefSeq ORF: 2967 bp

Locus ID: 27133

UniProt ID: [Q8NCM2](#)

Cytogenetics: 14q23.2

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

Gene Summary: This gene encodes a member of voltage-gated potassium channels. Members of this family have diverse functions, including regulating neurotransmitter and hormone release, cardiac function, and cell volume. This protein is an outward-rectifying, noninactivating channel. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).