

## Product datasheet for **SC306766**

### **KCNH5 (NM\_172375) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNH5 (NM_172375) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNH5
Synonyms:	EAG2; H-EAG2; hEAG2; Kv10.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC306766 representing NM\_172375.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCGGGGGCAAGAGAGGGCTGGTGGCACCCGAGAACACATTTTTGGAGAACATCGTCAGCGCCTCC
AGTGAATCAAGTTTCTTACTGGGAAATGCCAGATTGTGGATTGGCCTGTAGTTTATAGTAATGACGGT
TTTTGTAAACTCTCTGGATATCATCGAGCTGACGTCATGCAGAAAAGCAGCACTTGCAAGTTTATGTAT
GGGAATTGACTGACAAGAAGACCATTGAGAAAGTCAGGCAAACCTTTGACAACTACGAATCAAAGTGC
TTTGAAGTTCTTCTGTACAAGAAAAACAGAACCCTGTTTGGTTTTATATGCAAATTGCACCAATAAGA
AATGAACATGAAAAGGTGGTCTTGTCTGTACTTTCAAGGATATTACGTTGTTCAAACAGCCAATA
GAGGATGATTCAACAAAAGGTTGGACGAAATTTGCCCGATTGACACGGGCTTTGACAAATAGCCGAAGT
GTTTTGCAGCAGCTCACGCAATGAATAAAACAGAGGTGGTCCATAAACATTCAAGACTAGCTGAAGTT
CTTCAGCTGGGATCAGATATCCTTCTCAGTATAAACAAGAAGCGCCAAAGACGCCACCACACATTATT
TTACATTATTGTGCTTTTAAACTACTTGGGATTGGGTGATTTTAACTTACCTTCTACACCGCCATT
ATGGTTTCCTTATAATGTTTCCTTCAAACAAAGCAGAACAACATAGCCTGGCTGGTACTGGATAGTGTG
GTGGACGTTATTTTTCTGGTTGACATCGTTTTAAATTTTACACGACTTTCGTGGGGCCCGTGGAGAG
GTCATTTCTGACCCTAAGCTCATAAGGATGAACTATCTGAAAACCTGGTTTGTGATCGATCTGCTGTCT
TGTTTACCTTAGACATCATCAATGCCTTTGAAAATGTGGATGAGGGAATCAGCAGTCTCTTCAGTTCT
TAAAAGTGGTGGTCTCTTACGACTGGGCCGTGGCTAGGAACTGGACCATTACCTAGAATATGGA
GCAGCAGTCCCTCGTCTCCTGGTGTGTGTGTTGGACTGGTGGCCACTGGCTGGCTGCATATGGTAT
AGCATCGGAGACTACGAGGTCATTGATGAAGTCACTAACACCATCCAAATAGACAGTTGGCTCTACCAG
CTGGCTTTGAGCATTGGGACTCCATATCGCTACAATACCAGTGCCTGGGATATGGGAAGGAGGCCAGC
AAGGATTCATTGTACGTGTCCTCTCTCTACTTTACCATGACAAGCCTTACAACCATAGGATTTGGAAC
ATAGCTCCTACCACAGATGTGGAGAAGATGTTTTCGGTGGCTATGATGATGGTTGGCTCTCTTTTAT
GCAACTATTTTTGAAAATGTTACAACAATTTCCAGCAAATGTATGCCAACACCAACCGATACCATGAG
ATGCTGAATAATGTACGGGACTTCTAAAACCTCTATCAGGTCCAAAAGGCCCTAGTGAGCGAGTCATG
GATTATATTGTCTCAACATGGTCCATGTCAAAGGCATTGATACAGAAAAGGTCCTCTCCATCTGTCCC
AAGGACATGAGAGCTGATATCTGTGTTTCATCTAAACCGGAAGGTTTTAATGAACATCTGCTTTTCGA
TTGGCCAGCGATGGGTGTCTGCGCGCTTGGCGGTAGAGTTCAAACCATTCACTGTGCTCCCGGGAC
CTCATTTACCATGCTGGAGAAAGTGTGGATGCCCTCTGCTTTGTGGTGTGAGGATCCTTGAAGTCATC
CAGGATGATGAGGTGGTGGCTATTTTAGATCATCTTTCGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**

**ACCN:** NM\_172375

**Insert Size:** 1836 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172375.2</a>
<b>RefSeq Size:</b>	3757 bp
<b>RefSeq ORF:</b>	1836 bp
<b>Locus ID:</b>	27133
<b>UniProt ID:</b>	<a href="#">Q8NCM2</a>
<b>Cytogenetics:</b>	14q23.2
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>MW:</b>	69.4 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3), also known as HEAG2b, lacks an exon in the coding region, which results in a frameshift and an early stop codon, as compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, as compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>