

## Product datasheet for **RC211497**

### **KCNH5 (NM\_172375) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNH5 (NM_172375) Human Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>RC211497 representing NM\_172375  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGGGGCAAGAGAGGGCTGGTGGCACCGCAGAACACATTTTTGGAGAACATCGTCAGCGCTCCA  
 GTGAATCAAGTTTCTTACTGGGAAATGCCAGATTGTGGATTGGCCTGTAGTTTATAGTAATGACGGTTT  
 TTGTAACCTCTGGATATCATCGAGCTGACGTATGCAGAAAAGCAGCACTTGCAGTTTTATGTATGGG  
 GAATTGACTGACAAGAAGACCATTGAGAAAAGTCAGGCAAACCTTTGACAACTACGAATCAAAGTCTTTG  
 AAGTTCTTCTGTACAAGAAAACAGAACCCCTGTTGGTTTTATGCAAATGCACCAATAAGAAATGA  
 ACATGAAAAGGTGGTCTTGTCTGTACTTTCAAGGATATTACGTTGTTCAAACAGCCAATAGAGGAT  
 GATTCAACAAAAGTTGGACGAAATTTGCCGATTGACACGGGCTTTGACAAATAGCCGAAGTGTTTTGC  
 AGCAGCTACGCCAATGAATAAAACAGAGGTGGTCCATAAACATTCAAGACTAGCTGAAGTCTTCAGCT  
 GGGATCAGATATCCTTCTCAGTATAAACAAGAAGCGCCAAAGACGCCACCACACATTATTTTACATTAT  
 TGTGCTTTTAAACTACTTGGGATTGGGTGATTTAATTCCTACCTTCTACACCGCCATTATGGTTCCTT  
 ATAATGTTTCTTCAAACAAGCAGAACAACATAGCCTGGCTGGTACTGGATAGTGTGGTGGACGTTAT  
 TTTTCTGGTTGACATCGTTTTAAATTTTACACGACTTTCGTGGGGCCCGTGGAGAGGTCATTTCTGAC  
 CCTAAGCTCATAAGGATGAACATCTGAAAACCTGGTTTGTGATCGATCTGCTGTCTTGTTCCTTATG  
 ACATCATCAATGCCTTTGAAAATGTGGATGAGGGAATCAGCAGTCTTTCAGTCTTTAAAAGTGGTGCG  
 TCTTTACGACTGGGCCGTGTGGCTAGGAACTGGACCATTACCTAGAATATGGAGCAGCAGTCTCTGCG  
 CTCCTGGTGTGTGTTGGACTGGTGGCCACTGGCTGGCCTGCATATGGTATAGCATCGGAGACTACG  
 AGGTCATTGATGAAGTCACTAACACCATCCAATAGACAGTTGGCTCTACCAGCTGGCTTGGAGCATTGG  
 GACTCCATATCGCTACAATACCAGTCTGGGATATGGGAAGGAGGACCCAGCAAGGATTCATTGTACGTG  
 TCCTCTCTACTTTACCATGACAAGCCTTACAACCATAGGATTTGAAAACATAGCTCCTACCACAGATG  
 TGGAGAAGATGTTTTCGGTGGCTATGATGATGGTTGGCTCTCTTCTTTATGCAACTATTTTTGAAAATGT  
 TACAACAATTTTCCAGCAAATGTATGCCAACCAACCGATACCATGAGATGCTGAATAATGTACGGGAC  
 TTCCTAAAACCTATCAGGTCCCAAAGGCCTTAGTGAGCGAGTCATGGATTATATTGTCTCAACATGGT  
 CCATGTCAAAGGCATTGATACAGAAAAGTCTCTCCATCTGTCCCAAGGACATGAGAGCTGATATCTG  
 TGTTTCATCAAACCGAAGGTTTTAATGAACATCCTGCTTTTCGATTGGCCAGCGATGGGTGTCTGCC  
 GCCTTGGCGGTAGAGTTCCAAACCATTCAGTGTGCTCCCGGGACCTCATTTACCATGCTGGAGAAAGTG  
 TGGATGCCCTCTGCTTTGTGGTGTGAGGATCCTTGAAGTCATCCAGGATGATGAGGTGGTGGCTATTTT  
 AGATCATCTTTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC211497 representing NM\_172375  
 Red=Cloning site Green=Tags(s)

MPGGKRLVAPQNTFLENIVRRSSESSFLGNAQIVDWPVVYSNDGFCKLSGYHRADVMQKSSTCSFMYG  
 ELTDKKTIEKVRQTFDNYESNCFEVLLYKKNRTPVWFYMQIAPIRNEHEKVVLFLCTFKDITLTKQPIED  
 DSTKGWTKFARL TRAL TNSRSVLQQLTPMNKTEVVHKHSRLAEVLQLGSDILPQYKQEAPKTPPHIILHY  
 CAFKTTWDWVILILTFYTAIMVPYNVSFKTKQNNIAWLVLDSVVDVIFLVDIVLNFHTTFVGPGEVISD  
 PKLIRMNYLKTWFVIDLLSCLPYDIINAFENVDEGISSLFSSLKVVRLRLGRVARKLDHYLEYGAAVLV  
 LLVCFVGLVAHWLACIWYSIGDYEVIDEVTNTIQIDSWL YQLALSIGTPYRYNTSAGIWEGGPSKDSLYV  
 SSLYFTMTSLTTIGFNIAPTDDVEKMFVAMMMVGSLLYATIFGNVTTIFQMYANTNRYHEMLNNVRD  
 FLKLYQVPKGLSERVMDYIVSTWSMSKIDTEKVL SICPKDMRADICVHLNRKVFNEHPAFRLASDGCLR  
 ALAVEFQTIHCAPGDLIYHAGESVDALCFVVSLSLEVIQDDEVVAILDHLS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8069\\_f03.zip](https://cdn.origene.com/chromatograms/mk8069_f03.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_172375

ORF Size: 1833 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.

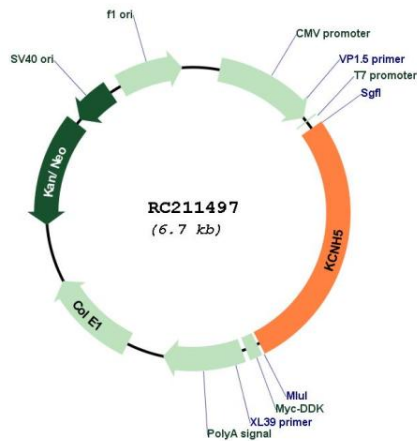
RefSeq: [NM\\_172375.3](#)

RefSeq Size: 3118 bp

RefSeq ORF: 1836 bp

**Locus ID:** 27133  
**UniProt ID:** [Q8NCM2](#)  
**Cytogenetics:** 14q23.2  
**Protein Families:** Druggable Genome, Ion Channels: Potassium, Transmembrane  
**MW:** 69.3 kDa  
**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]

### Product images:



Circular map for RC211497