

Product datasheet for **RC221539**

KCNH5 (NM_172376) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNH5 (NM_172376) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNH5
Synonyms:	EAG2; H-EAG2; Kv10.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC221539 representing NM_172376
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAAAAGCAGCACTTGCAGTTTTATGTATGGGAATTGACTGACAAGAAGACCATTGAGAAAGTCA
 GGCAAACTTTTGACAACTACGAATCAAACCTGCTTTGAAGTTCTTCTGTACAAGAAAAACAGAACCCCTGT
 TTGGTTTTATATGCAAATTGCACCAATAAGAAATGAACATGAAAAGGTGGTCTTGTCTGTACTTTT
 AAGGATATTACGTTGTTCAAACAGCCAATAGAGGATGATTCAACAAAAGTTGGACGAAATTTGCCCGAT
 TGACACGGGCTTTGACAAATAGCCGAAGTGTTTTGCAGCAGCTCACGCCAATGAATAAACAGAGGTGGT
 CCATAAACATTCAAGACTAGCTGAAGTCTTTCAGCTGGGATCAGATATCCTTCTCAGTATAACAAGAA
 GCGCCAAAGACGCCACCACATTATTTTACATTATTGTGCTTTTAAACTACTTGGGATTGGGTGATTT
 TAATTCTTACCTTCTACACCGCCATTATGGTTCCTTATAATGTTTCTTCAAACAAAGCAGAACAACAT
 AGCCTGGCTGGTACTGGATAGTGTGGTGGACGTTATTTTCTGGTTGACATCGTTTTAAATTTTACACG
 ACTTTCTGTTGGGGCCCGTGGAGAGGTCAATTTCTGACCCTAAGCTCATAAGGATGAACTATCTGAAAAC
 TTTGGTTGTGATCGATCTGCTGCTTGTTTACCTTATGACATCATCAATGCCTTTGAAAATGTGGATGAGGG
 AATCAGCAGTCTCTTCAAGTCTTTAAAAGTGGTGGTCTCTTACGACTGGGCCGTGTGGCTAGGAACTG
 GACCATTACCTAGAATATGGAGCAGCAGTCTCGTGTCTCTGGTGTGTGTGGTGGTGGCCACT
 GGCTGGCTGCATATGGTATAGCATCGGAGACTACGAGGTCATTGATGAAGTCAACACCATCCAAAT
 AGACAGTTGGCTCTACCAGCTGGCTTTGAGCATTGGGACTCCATATCGCTACAATACCAGTGTGGGATA
 TGGGAAGGAGGACCCAGCAAGGATTCATTGTACGTGCTCTCTACTTTACCATGACAAGCCTTACAA
 CCATAGGATTTGGAAACATAGCTCCTACCACAGATGTGGAGAAGATGTTTTCGGTGGCTATGATGATGGT
 TGGCTCTCTTTTATGCAACTATTTTTGGAAATGTTACAACAATTTTCCAGCAAATGTATGCCAACACC
 AACCGATACCATGAGATGCTGAATAATGTACGGGACTTCTAAAACCTATCAGGTCCCAAAAGGCCTTA
 GTGAGCGAGTCATGGATTATATTGTCTCAACATGGTCCATGTCAAAGGCATTGATACAGAAAAGTCTCT
 CTCCATCTGTCCCAAGGACATGAGAGCTGATATCTGTGTTTCACTAAACCGGAAGGTTTTAATGAACAT
 CCTGCTTTTTCGATTGGCCAGCGATGGGTGTCTGCGCGCCTTGGCGGTAGAGTTCCAAACCATTCACTGTG
 CTCCCGGGACCTCATTTACCATGCTGGAGAAAGTGGATGCCCTCTGCTTTGGTGTGACAGGATCCTT
 GGAAGTCATCCAGGATGATGAGGTGGTGGCTATTTTAGGGAAGGGTATGATTTGGAGACATCTCTGG
 AAGGAAACCACCCTTGCCATGCATGTGCGAACGTCGGGCACTGACGACTGTGACCTACACATCATCA
 AGCGGGAAGCCTTGCTCAAAGTCTGGACTTTTATACAGCTTTTCAAACCTCTTCTCAAGGAATCTCAC
 TCTTACTTGCAATCTGAGGAAACGGGGATGTTTCTCCATGGCAAACGCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221539 representing NM_172376
 Red=Cloning site Green=Tags(s)

MQKSSSTCSFMYGELTDKKTIEKVRQTFDNYESNCFEVLLYKKNRTPVWFYMQIAPIRNEHEKVVLFLCTF
 KDITLTKQPIEDDSTKGWTKFARLTRAL TNSRSLVQL TPMNKTEVVHKSRLAEVLQLGSDILPQYKQE
 APKTPPHIILHYCAFKTWDWVILILTFYTAIMVPYNVSFKTKQNNIAWLVLDSVVDVIFLVDIVLNFHT
 TFGVGGVEISDPKLRMNYLKTWFVIDLLSCLPYDIINAFENVDEGISSLFSSLKVVRLRLGRVARKL
 DHYLEYGA AVL VLLVCFGLVAHWLACI WYSIGDYEVIDEVTNTIQIDSWLYQLALSIGTPYRYNTSAGI
 WEGGPSKDSLYVSSLYFTMTSLTTIGFGNIAPTTDVEKMF SVAMMMVGSLLYATIFGNVTTIFQQMYANT
 NRYHEMLNVRDFLKLKLYQVPKGLSERVMDYIVSTWSMSKIDTEKVL SICPKDMRADICVHLNRKVFNEH
 PAFRLASDGCLRALAVEFQTIHCAPGLIYHAGESVDALCFVVSLSLEVIQDDEVVAI LKGDVDFGDIWF
 KETTLAHACANVRALTYCDLHIKREALLKVLDFYTA FANSFSRNLTLTCNLKRGRWFSMANL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8012_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172376

ORF Size: 1872 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_172376.1](#), [NP_758964.1](#)

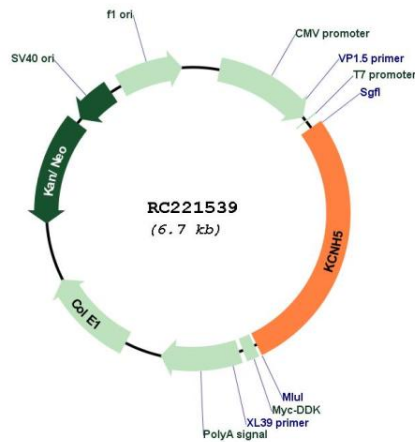
RefSeq Size: 2490 bp

RefSeq ORF: 1874 bp

Locus ID: 27133
Cytogenetics: 14q23.2
Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane
MW: 70.9 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 RC221539