

Product datasheet for **RG211497**

KCNH5 (NM_172375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNH5 (NM_172375) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNH5
Synonyms:	EAG2; H-EAG2; hEAG2; Kv10.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211497 representing NM_172375
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGGGGCAAGAGAGGGCTGGTGGCACCGCAGAACACATTTTTGGAGAACATCGTCAGGCGCTCCA
 GTGAATCAAGTTTCTTACTGGGAAATGCCAGATTGTGGATTGGCCTGTAGTTTATAGTAATGACGGTTT
 TTGTAACCTCTCTGGATATCATCGAGCTGACGTATGCAGAAAAGCAGCACTTGCAGTTTTATGTATGGG
 GAATTGACTGACAAGAAGACCATTGAGAAAAGTCAGGCAAACCTTTGACAACTACGAATCAAAGTCTTTG
 AAGTTCTTCTGTACAAGAAAAACAGAACCCCTGTTTGGTTTTATATGCAAATGCACCAATAAGAAATGA
 ACATGAAAAGGTGGTCTTGTCTGTACTTTCAAGGATATTACGTTGTTCAAACAGCCAATAGAGGAT
 GATTCAACAAAAGTTGGACGAAATTTGCCGATTGACACGGGCTTTGACAAATAGCCGAAGTGTTTTGC
 AGCAGCTCAGCCAATGAATAAAACAGAGGTGGTCCATAAACATTCAAGACTAGCTGAAGTCTTCAGCT
 GGGATCAGATATCCTTCTCAGTATAAACAGAAGCGCCAAAGACGCCACCACACATTATTTTACATTAT
 TGTGCTTTTAAACTACTTGGGATTGGGTGATTTAATCTTACCTTCTACACCGCCATTATGGTTCCTT
 ATAATGTTTCCTTCAAAACAAAGCAGAACAACATAGCCTGGCTGGTACTGGATAGTGTGGTGGACGTTAT
 TTTTCTGGTTGACATCGTTTTAAATTTTACACGACTTTCGTGGGGCCCGGTGGAGAGGTCATTTCTGAC
 CCTAAGCTCATAAGGATGAACATCTGAAAACCTGGTTTGTGATCGATCTGCTGTCTTGTTTACCTTATG
 ACATCATCAATGCCTTTGAAAATGTGGATGAGGGAATCAGCAGTCTTTCAGTCTTTAAAAGTGGTGCG
 TCTTTACGACTGGGCCGTGTGGCTAGGAACTGGACCATTACCTAGAATATGGAGCAGCAGTCTCTCGT
 CTCCTGGTGTGTGTTGGACTGGTGGCCACTGGCTGGCTGCATATGGTATAGCATCGGAGACTACG
 AGGTCATTGATGAAGTCACTAACACCATCCAAATAGACAGTTGGCTCTACCAGCTGGCTTGGAGCATTGG
 GACTCCATATCGCTACAATACCAGTCTGGGATATGGGAAGGAGGACCCAGCAAGGATTCATTGTACGTG
 TCCTCTCTACTTTACCATGACAAGCCTTACAACCATAGGATTTGAAAACATAGCTCCTACCACAGATG
 TGGAGAAGATGTTTTCGGTGGCTATGATGATGGTTGGCTCTCTTCTTTATGCAACTATTTTTGAAAATGT
 TACAACAATTTTCCAGCAAATGTATGCCAACCAACCGATACCATGAGATGCTGAATAATGTACGGGAC
 TTCCTAAAACCTATCAGGTCCCAAAGGCCTTAGTGAGCGAGTCATGGATTATATTGTCTCAACATGGT
 CCATGTCAAAGGCATTGATACAGAAAAGTCTCTCCATCTGTCCCAAGGACATGAGAGCTGATATCTG
 TGTTTCATCTAAACCGAAGGTTTTAATGAACATCCTGCTTTTCGATTGGCCAGCGATGGGTGTCTGCC
 GCCTTGGCGGTAGAGTTCAAACCATTCAGTGTCTCCCGGGACCTCATTTACCATGCTGGAGAAAGTG
 TGGATGCCCTCTGCTTTGTGGTGTGAGGATCCTTGAAGTCATCCAGGATGATGAGGTGGTGGCTATTTT
 AGATCATCTTTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211497 representing NM_172375
 Red=Cloning site Green=Tags(s)

MPGGKRLVAPQNTFLENIVRRSSESSFLGNAQIVDWPVVYSNDGFCKLSGYHRADVMQKSSTCSFMYG
 ELTDKKTIEKVRQTFDNYESNCFEVLVLYKKNRTPVWFYMQIAPIRNEHEKVVFLCTFKDITLTKQPIED
 DSTKGWTKFARL TRAL TNSRSVLQQLTPMNKTEVVHKHSRLAEVLQLGSDILPQYKQEPKTPPHIILHY
 CAFKTTWDWVILILTFYTAIMVPYNVSVFKTKQNNIAWLVLDSVVDVIFLVDIVLNFHTTFFVGPGEVSD
 PKLIRMNYLKTWFVIDLLSCLPYDIINAFENVDEGISSLFSSLKVVRLRLGRVARKLDHYLEYGAAVLV
 LLVCFVGLVAHWLACIWYSIGDYEVIDEVTNTIQIDSWLYQLALSIGTPYRYNTSAGIWEWGPPSKDSLIV
 SSLYFTMTSLTTIGFGNIAPTDDVEKMFVAMMMVGSLLYATIFGNVTTIFQQMYANTNRYHEMLNNVRD
 FLKLYQVPKGLSERVMDYIVSTWSMSKIDTEKVL SICPKDMRADICVHLNRKVFNEHPARFLASDGCLR
 ALAVEFQTIHCAPGDLIYHAGESVDALCFVVSGSLEVIQDDEVVAILDHLS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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
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]