

## Product datasheet for MR211392

### Kcnh5 (NM\_172805) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh5 (NM_172805) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnh5
Synonyms:	Eag2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211392 representing NM_172805 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGGGGCAAGAGAGGGCTGGTGGCTCCGCAGAACACATTTTTGGAGAACATCGTCAGGCGCTCCA  
GTGAATCAAGTTTCTTACTGGGAAATGCCCAAATTGTGGACTGGCCTGTAGTTTATAGTAATGACGGTTT  
TTGTAACTCTCTGGATATCATCGAGCTGACGTCATGCAGAAAAGCAGCACCTGCAGTTTTATGTATGGA  
GAAGTACCGACAAGAAGACCATTGAGAAAAGTCAGGCAGACTTTTGACAACACTACGAGTCAAAGTGTGTTG  
AAGTTCTTCTGTACAAAAAACCGTACCCTGTTTGGTTTTACATGCAAATCGACCAATAAGAAATGA  
ACACGAGAAGGTGGTCTTGTTCCTGTGTACATTCAAGGACATTACACTGTTCAAACAGCCTATAGAGGAT  
GACTCAACGAAAGTTGGACGAAGTTTGCCCGATTGACACGGGCTTTGACAAATAGCCGAAGTGTGTTTAC  
AGCAGCTTACACCAATGAATAAAACAGAGACAGTCCACAAGCATTCAAGACTAGCTGAAGTGCTTCAGCT  
GGGATCAGACATCCTTCTCAGTACAAACAAGAAGCGCCAAAGACGCCACCACATATCATCTTACACTAT  
TGTGCTTTTAAACTACTTGGGATTGGGTGATTTAATTTTACCTTCTACACGCCATCATGGTTCCCTT  
ACAATGTTTCTTTCAAACAAGCAGAACAAATATCGCCTGGCTGGTGTGGACAGTGTGGTGGACGTGAT  
TTTTCTGGTGGACATTGTTTTAAATTTTACACGACTTTTGTGGGCGGGTGGAGAGGTCATTTCTGAC  
CGAAGCTTATAAGGATGAAGTATCTGAAAACCTGGTTTTGTGATTGATCTGCTGCTTTGTTTACCTTATG  
ACATCATCAATGCCTTTGAAAATGTGGATGAGGGAATCAGCAGTCTCTTACAGCTCTTAAAGGTGGTGCG  
CCTTTTACGCTGGGCCGTGTTGCTAGGAACTGGACCATTACCTGGAATATGGAGCAGCGGTCCTTGTG  
CTCCTGGTATGTGTGTTGGACTGGTGGCTCACTGGCTGGCTTGCATCTGGTACAGCATTGGAGACTATG  
AGGTCAATGATGAAGTCACCAACACCATCAAATAGACAGCTGGCTTACCAGTTGGCCTTGAGCATTGG  
GACCCCATATCGTACAATACGAGTGCAGGATCTGGGAAGGAGGACCCAGCAAGGACTCCCTGTATGTG  
TCCTCCCTCTACTTCACCATGACGAGCCTTACAACCATAGGATTTGAAACATAGCTCCGACCACAGACG  
TGGAGAAGATGTTCTCAGTGGCCATGATGATGGTGGCTCTCTTCTTTATGCAACTATTTTTGAAAATGT  
TACCACAATTTCCAGCAATGTATGCCAACCAACCGTTACCATGAGATGCTGAATAATGTTTCGAGAT



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TTCTGAAATTATATCAGGTCCAAAAGGCCTTAGTGAACGAGTGATGGATTATATTGTCTCAACATGGT  
 CAATGTCAAAGGCATCGACACAGAGAAGGTCCTCCTCCATCTGTCCAAAGGACATGAGAGCTGACATCTG  
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 GCCTTGGCAGTGGAGTCCAAACCATTCACTGTGCTCCTGGGGACCTGATTTACCATGCTGGAGAGATG  
 TGGATGCCCTCTGCTTTGTGGTGTCCGGTCTTGAAGTTATCCAGGATGAGGAGGTGGTGGCCATTTT  
 AGGGAAGGTGACGTGTTTGGAGACATCTTCTGGAAGGAAACCACCCTTGCTCATGCGTGTGCCAATGTC  
 CGGGCCCTGACTTACTGTGATCTGCACATCAAGCGAGAAGCCTTGCTCAAGGTCCTTGACTTCTATA  
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 TAAAATTAGTGATGTGAAGAAGGAGGAGGAGCGGCTGCGGCAGAAGAATGAGGTGACTCTGAGCATC  
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 GTGACAGTGGGATTACAAAAAGTGACCTTCGTTTGGATAAAGCCGGTGGAGCCCGAAGTCTCTAGAACA  
 CAGCCCCAGCCAGGCTGATGTCAAGCATCTTTTACCCCATCCCGAGCAGGCCTTACAAAACCACTG  
 CAGGAAGTCAAACATGAAGTCAAGGAGGATATCCAGCTGCTAAGCTGCAGAACTGACTGCCCTGAAAAAGC  
 AGGTGGCAGAGATTTTAAACTACTCTCAGAGAAAAGCGTACCCAGACATCTTCTCAAACCCCAAT  
 TCCACTCAAGTACCTCCCAATACCATGTGAGGATATTTTGTGTCTCAAGGCTGAGTCACCCGAA  
 TCTGACAAAGACGAAATCACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAGGTTTAA

**Protein Sequence:**

>MR211392 representing NM\_172805  
 Red=Cloning site Green=Tags(s)

MPGGKRGLVAPQNTFLENIVRRSESSFLLGNAQIVDWPVVYSNDGFCCKLSGYHRADVMQKSSSTCSFMYG  
 ELTDKKTIEKVRQTFDNYESNCFEVLLYKKNRTPVWFYMQIAPIRNEHEKVVLFLCTFKDITLQKQPIED  
 DSTKGWTKFARLTRALNRSVQLQQLTPMKNKTEVHKHSRLAEVLQLGSDILPQYKQEAAPKTPPHIILHY  
 CAFKTTWDWVILILTFYTAIMVPYNVSFKTKQNNIAWLVLDSVVDVIFLVDIVLNFHTTFVGPGEVSD  
 PKLIRMNLYKTFVIDLLSCLPYDIINAFENVDEGISSLFSSLKVVRLRLGRVARKLDHYLEYGAAVLV  
 LLVCFVGLVAHWLACIWYSIGDYEVIDEVTNTIQIDSWLYQLALSIGTPYRYNTSAGIWEWGGPSKDSLIV  
 SSLYFTMTSLTTIGFGNIAPTDDVEKMFVAMMMVGSLLYATIFGNVTTIFQQMYANTNRYHEMLNNVRD  
 FLKLYQVPGKLSERVMDYIVSTWSMSKIDTEKVL SICPKDMRADICVHLNRKVFNEHPAFRLASDGCLR  
 ALAVEFQTIHCAPGLIYHAGESVDALCFVVSLSLEVIQDEEVVAILGKGDVFGDIFWKETTLAHACANV  
 RALTYCDLHIKREALLKVLDFYTAFAANSFSRNLTLTCNLRKRIIFRKISDVKKEEERLRQKNEVTL SI  
 PVDHPVRKLFQKFKQKELRIQGSQSDPERSQLQVESRPLQNGASITGTSVVTVSQITPIQTSLAYVKT  
 SESLKQNNRDAMELKPNGGAEPKCLKVNSPIRMKNGNGKWLRLKNMGAQEEKKEDWNNVTKAESMGLL  
 SEDPKGSDSENSVTKNPLRKTDSCDSGITKSDLRLDKAGEARSPLHSPSQADVXHSFYPIPEQALQTTL  
 QEVKHELKEDIQLLSCRMTALEKQVAEILKLLSEKSVPTSSPKPQIPLQVPPQIPCQDIFSVSRPESPE  
 SDKDEINF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9012\\_b12.zip](https://cdn.origene.com/chromatograms/mm9012_b12.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


ACCN: NM\_172805

ORF Size: 2964 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.

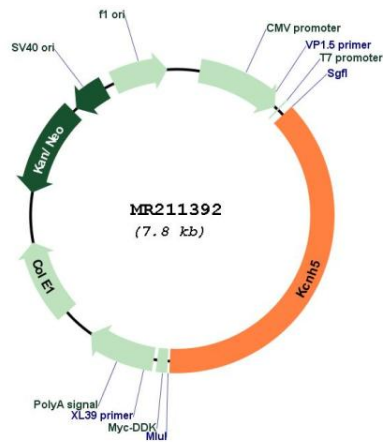
RefSeq: [NM\\_172805.3](#), [NP\\_766393.2](#)

RefSeq Size: 4061 bp

RefSeq ORF: 2967 bp

**Locus ID:** 238271  
**UniProt ID:** [Q920E3](#)  
**Cytogenetics:** 12 C3  
**MW:** 112.3 kDa  
**Gene Summary:** Pore-forming (alpha) subunit of voltage-gated potassium channel. Elicits a non-inactivating outward rectifying current (By similarity). Channel properties may be modulated by cAMP and subunit assembly.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211392