

Product datasheet for **MC228999**

Kcnh2 (NM_001294162) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Kcnh2 (NM_001294162) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Kcnh2 |
| Synonyms: | AI326795; ERG1; LQT; Lqt2; M-erg; Merg1; merg1a; merg1b |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC228999 representing NM_001294162
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGATTCCAGCCGGGAAGGAGAGCAGGACAGGGGCTCTGCAGCCAGGGCCAGAAAGCCGGGTGA
 GGCGGGCAGTGCGCATCTCCAGCCTGGTGGCCAGGAGTCTGTCTTGGGAGCAGATGTGCTGCCTGA
 GTATAAGCTGCAGGCCCAAGAATCCACCCTGGACCATCCTCCACTACAGCCCTTCAAGGCGGTGTGG
 GACTGGCTCATCTGCTGCTGGTCTACACGGCAGTCTTACACCGTACTCGGCCCTTCTGCTGA
 AGGAGACTGAAGATGGGTCCCAAGCCCCTGACTGTGGCTACGCTGCCAGCCCCTGGCTGTAGTGGACCT
 CATCGTGGACATCATGTTCAATTGTGGACATCCTTATCAATTTCCGTACCACCTATGTTAATGCCAACGAG
 GAGGTGGTTAGCCATCTGGCCGATTGCTGTGCACTACTTCAAGGGCTGGTTTCTCATTGACATGGTGG
 CTGCCATCCCCTTCGACCTGCTCATCTTGGCTCTGGCTCCGAGGAGCTGATCGGGCTGCTGAAAATGC
 GAGGCTGTGCGGCTGGTGGCGTGGCTCGGAAGCTGGACCGCTACTCGGAGTACGGGGCAGCAGTGTCT
 TTCTGCTCATGTGCACCTTCGCCCTCATTGCGCACTGGTTGGCCTGCATCTGGTACGCGATCGGCAACA
 TGGAAACAGCCTCACATGGACTCACACATCGGCTGGCTGCACAACCTGGGGCAGCAGATCGGCAAGCCCTA
 CAACAGCAGCGGCTGGGAGGCCCTCCATCAAGGACAAGTATGTACAGCGCTCTACTTCACTTACAGC
 AGCCTCACAGCGTGGGCTTTGGCAATGTCTCTCCAACCAACTCAGAGAAGATCTTCTCCATCTGTG
 TCATGCTCATTGGCTCCCTCATGTATGCCAGCATCTTCGCAACGTGTCCGCCATCATCCAGCGGCTGTA
 CTCGGGCACGGCCGCTACCACACAGATGCTCCGGGTGCGGGAGTTTATCCGCTTTCACCAGATTCCC
 AACCCATTACGCCAGCCTCGAGGAGTACTTCCAGCATGCTTGGTCTACACCAATGCCATCGACATGA
 ACGCGTGTGAAGGGCTCCCTGAGTGCCTCCAGGCTGACATCTGCCTACACCTGAACCGCTCGTGTCT
 GCAGCATTGCAAGCCATTCCGAGGGGCCACTAAAGGCTGCCTGAGGGCGCTGGCTATGAAGTTCAAGACC
 ACACATGCACCACCAGGGGACACACTAGTGCACGCGGGGACCTGCTTACTGCCCTCTACTTTCATCTCCA
 GGGGCTCCATCGAGATCTGCGGGTGTGTCTGGTGGCCATCTTGGGGAAGAAGCAGATCTTTGGAGA
 GCCTCTGAACCTATATGCCCGTCTGAAAGTCCAATGGGGATGTGCGGGCCCTCACGACTGTGACCTG
 CACAAGATCCATCGTGTGACTTGTGGAGGTGTGGACATGTATCCCGAGTTCTCAGATCACTTTTGGT
 CTAGCCTGGAGATCACCTTCAACCTTCGAGATACCAACATGATTCCTGGCTCCCCAGGCAGTGCAGAACT
 AGAGAGCGGCTTAAACAGGCAACGCAAGCGCAACTGTCATTCCGAGGGGTACAGACAAGGACACAGAG
 CAGCCAGGGGAGGTGTCAGCCCTGGGGCAAGGCCCTGCCGAGTTGGGCCAGGGCCGAGTTGCCGGGGAC
 AGCCGGGAGGGCCATGGGGGAGAGCCATCCAGCGGCCCTTCCAGCCCAGAGAGCAGTGAAGATGAGGG
 CCCTGGTTCGACGCTCCAGTCCCCTCCGCTGGTGCCTTCTCCAGCCCCAGGCCTCCGGGAGACCCCCCA
 GGTGGGGAGCCTTTGACAGAGGATGGGGAGAAAAGTGCACCTGTAAATCCCTTGTGAGGTGCCTTCTCTG
 GGGTGTCCAATATTTTTCAGCTTCTGGGGGACAGTCCGGGGCGCCAGTACCAGGAGTTGCCTCGATGCC
 TGCCCCCTGCCCCAGCCTCCTCAACATCCCCTTGTCTAGCCCTGGTGGCGATCCCGGGGTGATGTGGAG
 AGCAGGCTGGACGCACTCCAGAGACAGCTGAACAGGCTGGAAACCCGGCTAAGTGCAGACATGGCCACTG
 TCCTACAGCTGCTACAGAGGCAAATGACCCTGGTCCCTCCTGCCTACAGTGTGTGACCACCCCTGGGCT
 CGGCCCCACTTCCGATCCCCTTTGTTGCTGTGCGCCCTGTCCCCTCTCACCTTGACTCGCTTTCT
 CAGGTTTTCCAGTTCGTGGCGTTTGGAGGCTTCTGCAGGAGCCCCAGAGCTCCCCAAGATGGCCCCA
 CTCGACGCTCTCCCTGCCCGGCGAGTGGGGCCCTTACCTCCCAGCCCTGCACAGACATGGCTCAGA
 TCCAGGCAGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001294162
Insert Size: 2463 bp

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| 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: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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: | <u>NM_001294162.1, NP_001281091.1</u> |
| RefSeq Size: | 3193 bp |
| RefSeq ORF: | 2463 bp |
| Locus ID: | 16511 |
| UniProt ID: | <u>O35219</u> |
| Cytogenetics: | 5 10.94 cM |
| Gene Summary: | <p>Pore-forming (alpha) subunit of voltage-gated inwardly rectifying potassium channel. Channel properties are modulated by cAMP and subunit assembly. Mediates the rapidly activating component of the delayed rectifying potassium current in heart (IKr) (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks several exons in the 5' coding region and contains an alternate 5' terminal exon, compared to variant 1. It encodes isoform 2 (also known as Merg1b), which is shorter and has a distinct N-terminus, 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> |