

Product datasheet for **MC223792**

Kcnh2 (NM_013569) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnh2 (NM_013569) 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
Fully Sequenced ORF: >MC223792 representing NM_013569
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCGGTGCGGAGGGGCCACGTCGCGCCGAGAACACCTTCTCGACACCATCATCCGAAGTTTGAGG
GCCAGAGCCGCAAGTTCATCATCGTAACGCGCGCTAGAGAAGTGCCTGTCATCTACTGCAACGACGG
CTTCTGCGAACTGTGTGGCTACTCGGGCCGAGGTGATGCAGCGCCCTGCACCTGCGATTTCTGCAT
GGGCCCGCAGCAGCGCCGTGCCGCCGCGCAGATCGCGCAGGCCCTGCTGGGCGCAGAGGAGCGCAAAG
TGGAGATCGCCTTCTACCGAAAAGATGGGAGCTGCTTCTGTGTCTGGTGGATGGTACCCGTGAAGAA
TGAAGATGGGGCTGTGATCATGTTATCCTCAACTTTGAAGTAGTGATGGAGAAGGACATGGTAGGGTCC
CCGGCTCATGACACCAACCACAGGGGCCCTTACCAGCTGGCTAGCTTCTGGCCGGCCAAGACTTTCC
GCCTGAAGCTGCCTGCCTTGTGGCACTGACGGCCAGGAATCATCTGTGCGGACAGGAAGCATGCGCAG
TGCTGGAGCCCTGGGGCGGTGGTGGTGGATGTGGACCTGACGCCGCGCAGCACCAGCAGTGAAGTCCCTG
GCCTTGGATGAGGTTTCTGCCATGGACAACCATGTGGCAGGGCTTGGCCCTGCAGAAGAGAGGGCAGCAC
TGGTGGGCCCGGGTCTGCTTACCAGTAGCCAGCATCCGAGGCCCTCACCCATCGCCACGAGCTCAGAG
CCTTAACCCGTATGCCTCAGTTCCAGCTGCAGCCTGGCCCGGACACGCTCCCGTGAGAGCTGCGCTAGC
GTGCGCCGCGCATCATCCGCGGATGACATTGAGGCAATGCGGGCTGGAGCGCTGCCCCCTCCGCCCGCC
ATGCAAGCACAGGGGCCATGCACCCCTGCGCAGTGGCCTGCTTAACTCCACCTCAGACTCTGACCTTGT
ACGCTACCGAACCATTAGCAAGATACCCAAATCACTCTCAACTTTGTGGACCTCAAAGGCGACCCCTTTC
CTGGCTTACCACCAAGTACCGGGAGATTATAGACCCAAAGATAAAGAGCGGACCCACAATGTCACCG
AGAAGGTACCCAGTCTGTCTTGGGAGCAGATGTGCTGCCTGAGTATAAGCTGCAGGCCCAAGAAAT
CCACCGCTGGACCATCTCCACTACAGCCCTTCAAGGCGGTGTGGGACTGGCTCATCTGCTGCTGGTC
ATCTACACGGCAGTCTTACACCGTACTCGGCCCTTCTGCTGAAGGAGACTGAAGATGGGTCCCAAG
CCCTGACTGTGGCTACGCCTGCCAGCCCTGGCTGTAGTGGACCTCATCGTGGACATCATGTTTATTGT
GGACATCCTTATCAATTTCCGTACCACCTATGTTAATGCCAACGAGGAGGTGTTAGCCATCCTGGCCG
ATTGCTGTGCACTACTCAAGGGCTGGTTTCTCATTGACATGGTGGCTGCCATCCCTTCGACCTGCTCA



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TCTTTGGCTCTGGCTCCGAGGAGCTGATCGGGCTGCTGAAAACGCGAGGCTGCTGCGGCTGGTGC GCGT
 GGCTCGGAAGCTGGACCGCTACTCGGAGTACGGGGCAGCAGTGCTCTTCCTGCTCATGTGCACCTTCGCC
 CTCATTGCGCACTGGTTGGCCTGCATCTGGTACCGGATCGGCAACATGGAACAGCCTCACATGGACTCAC
 ACATCGGCTGGCTGCACAACCTGGGCGACCAGATCGGCAAGCCCTACAACAGCAGCGGCTGGGAGGCC
 CTCCATCAAGGACAAGTATGTCACAGCGCTCTACTTCACCTTCAGCAGCCTCACCAGCGTGGGCTTTGGC
 AATGTCTCTCCCAACACCAACTCAGAGAAGATCTTCTCCATCTGTGTATGCTCATTGGCTCCCTCATGT
 ATGCCAGCATCTTCGGCAACGTGTCCGCCATCATCCAGCGGCTGTACTCGGGCAGCGCCGCTACCACAC
 ACAGATGCTCCGGGTGCGGGAGTTTATCCGCTTTACCAGATTCCAACCCATTACGCCAGCGCCTCGAG
 GAGTACTTCCAGCATGCTTGGTCTACACCAATGGCATCGACATGAACGCGGTGCTGAAGGGCTTCCTG
 AGTGCCTCCAGGCTGACATCTGCCTACACCTGAACCGCTCGTGTGCAGCATTGCAAGCCATTCCGAGG
 GGCCACTAAAGGCTGCCTGAGGGCGCTGGCTATGAAGTTCAAGACCACACATGCACCACCAGGGGACACA
 CTAGTGCACGCCGGGACCTGCTACTGCCCTCTACTTCATCTCCAGGGGCTCCATCGAGATCCTGCGGG
 GTGATGTCGTGGTGGCCATCTTGGGAAGAACGACATCTTTGGAGAGCCTCTGAACCTATATGCCGTCC
 TGGAAAGTCCAATGGGGATGTGCGGGCCCTCACGTACTGTGACCTGCACAAGATCCATCGTGATGACTTG
 CTGGAGGTGTTGGACATGTATCCCGAGTTCTCAGATCACTTTTGGTCTAGCCTGGAGATCACCTTCAACC
 TTGAGATACCAACATGATTCTGGCTCCCGAGGAGTGCAGAACTAGAGAGCGGCTTAAACAGGCAACG
 CAAGCGCAAACTGTCAATCCGCGAGGCTACAGACAAGGACACAGAGCAGCCAGGGGAGGTGTACGCCCTG
 GGGCAAGGCCCTGCCCGAGTTGGGCCAGGGCCGAGTTGCCGGGGACAGCCGGGAGGGCCATGGGGGAGA
 GCCCATCCAGCGGCCCTTCCAGCCCAGAGAGCAGTGAAGATGAGGGCCCTGGTCGCAGCTCCAGTCCCT
 CCGCCTGGTGCCCTTCTCCAGCCCCAGGCTCCGGGAGACCCCCAGGTGGGAGCCTTTGACAGAGGAT
 GGGGAGAAAAGTGACACCTGTAATCCCTTGTGAGGTGCCTTCTCTGGGTGTCCAATATTTTCAGTTCT
 GGGGGACAGTCGGGGGCCAGTACCAGGAGTTGCCTCGATGCCCTGCCCTGCCCTGCCCTCCCTCAA
 CATCCCCTTGTCTAGCCCTGGTCGGCGATCCCGGGGTGATGTGGAGAGCAGGCTGGAGCCTCCAGAGA
 CAGCTGAACAGGCTGGAACCCGGCTAAGTGCAGACATGGCCACTGTCTACAGCTGCTACAGAGGCAAA
 TGACCCTGGTCCCTCCTGCCTACAGTGCTGTGACCACCCCTGGGCCCGGCCCACTTCCGCATCCCTTT
 GTTGCCTGTGCGCCCTGTCCCACTCTCACCCTGGACTCGCTTTCTCAGGTTTCCAGTTCGTGGCGTTT
 GAGGAGCTTCTGCAGGAGCCCCAGAGCTCCCCAAGATGGCCCCACTCGACGCTCTCCCTGCCCGGCC
 AGCTGGGGCCCTTACCTCCAGCCCCTGCACAGACATGGCTCAGATCCAGGCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_013569
- Insert Size:** 3489 bp
- 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).
- 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_013569.2](#), [NP_038597.2](#)

RefSeq Size: 4221 bp

RefSeq ORF: 3489 bp

Locus ID: 16511

Cytogenetics: 5 10.94 cM

Gene Summary: 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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1, also known as Merg1a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.