

Product datasheet for **MC220587**

Kcnq4 (NM_001081142) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq4 (NM_001081142) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnq4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220587 representing NM_001081142
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGAGGCCCCCCCGCGCCCTCGGCTGGCCCCCGCCGGGGACGCCCCCGCGGAGTTGG
 TGGCGCTCACGGCGTGCAGAGTGAACAGGGCGAGGCGGGGGCGGCTCTCCGCGTCGCTCGGCT
 TCTGGGACAGCCCTGCCGCCGGCGCGCCCTCCCTGGGCCGGCTCCGGCTCGGGCTCCGCTCGCGG
 GGCCAGCGCTCTCCGCCGCGCAGAAGCGCTACCGCCGCTGCAGAACTGGGTCTACAACGTGCTGGAGC
 GGCCCCGCGGGTGGGCTTCGTCTACCACGTCTTCATATTTTGTAGTCTTCAGCTGCCTGGTGTCT
 TGTACTGTCCACCATCCAGGAGCACCAGGAAGTGGCAACGAGTGTCTCCTTATCTTGAATTCTGTATG
 ATTGTGGTCTTTGGCTTGGAGTATATAATCCGTGTCTGGTGGCCGGATGCTGTTGTCTACAGAGGAT
 GGCAGGGACGCTTCGCTTCGCCAGGAAACCTTCTGTGTCTGACTTCATCGTGTTCGTGGCCTCGGT
 GGCAGTATAGTGGCGCACACAAGGCAACATCTTTGCTACGTCGGCTGCGCAGTATCGCTTCTCTA
 CAGATCTGCGCATGGTGCATGGATCGCCCGGTTGGCACCTGGAAGCTGTTGGGATCCGTGGTCTATG
 CGCACAGTAAGGAGCTGATCACCGCTGGTACATCGGGTTCCTGGTGTCTATCTTGCCTCTTCTCGGT
 CTACCTGGCTGAGAAGGATGCCAAGTCTGACTTCTCTCTATGCCGACTCGCTCTGGTGGGGGACGATC
 AACTGACGACCATTTGGCTATGGTGACAAGACGCCACATACATGGCTGGGCGAGGTTCTGGCTGCCGGT
 TCGCTTACTGGGCATCTCTTCTTTGCCCTGCCTGCCGGCATCTGGGCTCTGGCTTGGCCTGAAGGT
 CCAGGAGCAGCACAGGACAGAAGCACTTTGAGAAGCGCAGGATGCCAGCAGCTAATCTCATCCAGGCTGCG
 TGGCGCTGTACTCCACGGACACAAGCCGGCCTATTTGACAGCCACCTGGTATTACTATGACAGCATTC
 TCCCCTTTTTCAGAGAGCTGGCCCTTTGTTTGGACACATAACAAGGGCCCGCAATGGGGCTTACGGCC
 CCTGGAGGTGAGCGGGCGCCAGTACCTGATGGAGCGCCCTCTCGCTACCGCCCGTTGCCACCTGCCAC
 CGGCCAGGAGTGCCTCTTCTGCCCTGGGAAAAGCAGCCGGATGGGCATCAAAGACCGAATCCGCATAA
 GCAGCTCCAGAAGCGGACAGGCCCTCCAAGCAGCATCTGGCCCTCCGCCGATTCCACCTCGCCAAG
 CAGTGAGCAGGTGGGCGAGGCATCCAGCCCCAGCAAGGTGCAGAAAAGCTGGAGCTTCAATGACCGCACC
 CGCTTCCGGGCTCTCTAAGACTCAAGCCTCGTGTCTGCTGAGGAGGGCCCTCAGAGGAAGTGGCCG
 AGGAGAAGAGCTACCAGTGTGAGCTTACGGTGGATGATGTCATGCCTGCTGTGAAGACGGTTCATCCGTT
 TGTGAGGATTCTGAAGTCTCTGGTACGCAAAAAGGAAATCAAGGAGACGCTGCGCCATATGATGTGAAG
 GATGTCATTGAGCAGTATTCAGCAGGACACCTGGACATGCTGGGACGAATCAAGAGCCTGCAAGCCCGGG
 TGGACCAATTTGGGTGGGGCCCTGGGGACCGCAAGACTCGGGAGAAGGGCGATAAAGGTCTTCAGA
 CACGGAGGAGTGGATGAAATCAGCATGATGGGGCGCTAGTCAAGGTGAAAAGCAGGTGCAGTCCATC
 GAACATAAGTTGGATCTGCTGCTGGGCTTCTACTCGCGCTGCCTCCGCTCTGGCACCTCGGCCAGCTGG
 GCACTGTGCAAGTCCGCTCTTCGACCCCGACATCACCTCGGACTACCACAGCCCTGTAGACCACGAGGA
 CATCTCTGTCTCCGCACAGACGCTCAGCATCTCTCGCTCAGTCAGCACCAACATGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001081142
- Insert Size:** 2091 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_001081142.1](#), [NP_001074611.1](#)

RefSeq Size: 2512 bp

RefSeq ORF: 2091 bp

Locus ID: 60613

UniProt ID: [Q9JK97](#)

Cytogenetics: 4 D2.2

Gene Summary: Probably important in the regulation of neuronal excitability. May underlie a potassium current involved in regulating the excitability of sensory cells of the cochlea.[UniProtKB/Swiss-Prot Function]