

## Product datasheet for **MC217211**

### **Kcna10 (NM\_001081140) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcna10 (NM_001081140) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcna10
Synonyms:	Gm1962; Kcna8; Kv1.8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC217211 representing NM\_001081140  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGTGTGTAGCTGGAAGAATGGAGTTGCTCTGGTCAATTTTGATAACTCGGATGAAATCCATG  
 AAGAGCCAGGCTATGCCACAGACTTTGACCCAACCAGCTCAAAGGCCGCCCTGGTAGCAGTCCCTTTTC  
 CAATTGGAGAGTCTTATCAGTGACAACACCAACCATGAAACTGCCTTCTCCAAGATCCCAGGAGAGTAT  
 GTGGATCCCCGGGACCTGAGCCAGTGGTCTTGAATGAGGGAAACCAAAGGGTGATCATCAACATTGCTG  
 GTCTGAGATTCGAGACTCAGCTCAGAACACTTAATCAATCCCAGAGACTCCTGGGAGACCGGGAGAA  
 AAGGATGCAATTTTTGACTCCATGAGAAATGAGTATTTCTTTGATAGAAACAGACCTAGTTTTGATGGA  
 ATCTTATATTATTACCAGTCTGGTGGGAAATACGGCGGCCAGCCAACGTGCCTATCGATGTTTTCGCTG  
 ATGAGATCTCCTTCTATGAACTGGTAGCGAGGCCATGGACCAGTCCGGGAGGATGAAGGCTTCATTAA  
 GGACCCTGAGACTGCTGCCACCAATGACTTTCACCGCAATTCTGGCTTCTTTGAGTACCCCGAG  
 AGCTCCAGTGCAGCTCGAGGAGTGGCTGTGGTCTCGGTTTTGGTTGTAGTCATCTCCATCACCATCTTCT  
 GCCTGGAGACTCCCAGAGTCCGAGAGGACAGGGAGCTGAAGTGGTCTAGAGACCCAGCATCAATAC  
 AAACAAAACAGGCCTCTCCCAGACCATGTTCACTGATCCTTTCTTCATGGTGGAGTCCACCTGCATCGTG  
 TGGTTCACCTTTGAGCTGGTGTCCGGTTTGTGGTCTGCCCCAGCAAGACTGACTTCTTCAAGAATCA  
 TGAATATTATTGACATCATCTCCATCATCCCCTACTTTGCAACCCTCATAACAGAGCTAGTACAGGAGAC  
 CGAGCCAAGTGCCAGCAGAATGTCCCTGGCCATCTGAGGATCATTCTGCTGGTGGAGGCTTCCCGC  
 ATCTTCAAGCTTCTCGACACTCTAAAGGGCTGCAGATCCTGGGCAGACGCTGAAGGCTTCCATGCGGG  
 AGCTGGGCTGCTCATCTTCTCTTTCATTGGGGTCACTCTTTCTCCAGTGCAGTCTACTTTGCTGA  
 GGTGGATGAGCCAGAGTCCCATTCTCTAGCATTCTGATGGCTTCTGGTGGGCTGTGGTACCATGACA  
 ACTGTAGGCTACGGTGCATGTGCCAACCACCCAGGAGGAAAGATTGTGGTACTCTGTGCGCCATTG  
 CTGGTGTCTCACCATCGCCCTCCCTGTGCCTGTCTCATTGTCTCCAATTTCAACTACTTCTACCACCGTGA  
 GACTGAGAACGAGGAGAAGCCAAACATCCCAGGAGAACTGACAAAATCCTCAACAGCATGGGCTCCAGA  
 ATGGGGAGTACTGAGTCTCTCAACAAGACCAATGGCAGCTGCTCTGCAGAGAAGTCCAGGAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001081140

**Insert Size:** 1536 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\\_001081140.1](#), [NP\\_001074609.1](#)

**RefSeq Size:** 1826 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 242151

**UniProt ID:** [B2RQA1](#)

**Cytogenetics:** 3 46.64 cM

**Gene Summary:** Mediates voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient. The channel activity is up-regulated by cAMP. [UniProtKB/Swiss-Prot Function]