

Product datasheet for **MC216803**

Kcna7 (NM_010596) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcna7 (NM_010596) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcna7
Synonyms:	Kv1.7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216803 representing NM_010596
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTATTTTTACCCGCCGACACCCGACACCCGACTGGGGTGGCTGCGGGCTCGGGGCCACACGTCCTGTT
 CACCGGTGCGCCGGCTGTGCGGCCATGGAGCCACGGTGCCCGCGCCCTGCGGCTGCTGCGAGCGGCT
 GGTGCTCAACGTGGCCGGTTGCGCTTCGAGACCCGCGCGCACGCTCGGCCGCTTCCCGACACGCTG
 CTGGGGGACCCGGTGCGCCGAGCCGCTTCTACGACGGCGCGCGCGAGTATTTCTCGACCGACACC
 GGCCAGCTTCGATGCGGTGCTCTACTACTACCAGTCGGCGGCCGGCTGAGACGGCCGGCGCACGTGCC
 CCTCGACGCTTCTCTGGAGGAGGTGCTTCTACGGGTGGGCGCGCGCGCTGGCGGGCTGCGGGAG
 GACGAGGGCTGCGCGGTGCCGCCGAGCGGCCGCTGCCCGCGCGCCTTTGCGCGTCAGCTCTGGCTGC
 TCTTCAATTTCTGAGAGCTCGCAGGCTGCGCGCTGCTCGCCGTGGTCTCCGTACTCGTCATCCTGGT
 CTCATCGTGGTCTTTGCTCGAGACTGCCAGACTTCGCGCAGCACCAGCAGTACCCGGGGCTCGCG
 CCCGTAGCCGCTGCTACTGGCCGTTTCTCGCCGACTGAATGGTCCAGTCCCAGTCCAGGAGCCCTC
 CCCGACAGCCCTCAACGATCCATTCTTTGTGGTGGAGACCCTGTGTATCTGCTGTTTCTCTTTGAGT
 GCTGGTGCCTGCTGGTGGCTGCCCTAGCAAAGCTGTGTTCTTCAAGAATGTGATGAACCTAATTGACTTC
 GTGGCCATCCTGCCTTACTTCGTGGCCCTGGGCACGGAGTTAGCCCGCAGCGGGGTGTGGGCCAGCCGG
 CTATGTCCTGGCCATCCTAAGGGTCAATCCGATTGGTGGTGTCTTCCGCATCTTCAAGCTCTCCAGGCA
 TTCGAAGGTCTACAGATCTTGGGTGAGACTGCGGGCTCCATGCGTGAGTGGTCTCCTCATCTTC
 TTCCTTTCATTGGCGTGGTCTCTTTCCAGCGAGTCTACTTTGCTGAAGTGGACCGGGTGGACACCC
 ATTTACACAGCATCCCGGAGTCCCTTTGGTGGCAGTGGTCACCATGACCAGGTTGGCTATGGGACAT
 GGCACCCGTACCGTGGGTGGCAAGATCGTGGGCTCTCTGTGTGCCATTGCAGGTGCTCACCATCTCT
 CTGCCTGTGCCTGTCACTGTCTCTAACTTTAGCTACTTTTACCACCGGGAGACAGAGGGCAAGAGCGAG
 GGATGTACAGCCATGTGGACACACAGCCCTGCGGTACCCTGGAGGGCAAGGCTAATGGGGGCTGGTGA
 CTCTGAGGTGCCTGAACCTCTCCACCCTCTGGCCCTGCAGGGAAACACATGGTGACTGAGGT**GTA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_010596

Insert Size: 1470 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_010596.2](#), [NP_034726.2](#)

RefSeq Size: 3494 bp

RefSeq ORF: 1470 bp

Locus ID: 16495

UniProt ID: [Q17ST2](#)

Cytogenetics: 7 29.3 cM

Gene Summary: Mediates the 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. Channels formed by isoform 1 inactivate faster than channels formed by isoform 2.[UniProtKB/Swiss-Prot Function]