

Product datasheet for **MC217423**

Kcna3 (NM_008418) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcna3 (NM_008418) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcna3
Synonyms:	Kca1-3; Kv1.3; Mk-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217423 representing NM_008418
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGTGGTGCCCGGGGACCCTGCTGGAGCCAGAGCGCGGGAGGCGGTGGCGGGGACCCGCTC
 AGGGAGGCTGTGGCAGTGGCGGGCGGGTGGCGGCTGCGACCGCTACGAGCCACTGCCACCCGCGCTGCC
 CGCCGCGGGCGAGCAAGATTGCTGCGGGCAGCGTGTGGTCAACATCTCTGGGCTGCGCTTCGAGACG
 CAGCTCAAGACCCTCTGCCAGTCCCGGAGACTGCTGGGCGACCCCAAGCGGCGCATGCGGTACTTTG
 ACCCACTCCGCAATGAGTACTTCTTCGACCGCAACCGACCCAGCTTCGACGCCATCCTCTACTACTACCA
 GTCCGGGGGCCGATTGCGCGGCCGTTCAACGTGCCATCGACATCTTCTCCGAGGAGATCCGCTTTTAC
 CAGCTGGGTGAGGAGCCATGAAAAGTCCGTGAGGATGAGGGTTCCTGCGGGAGGAGGACGACCC
 TGCCCGCCGTGACTCCAGCGCCAGGTGGTGTCTTTCGAATATCCGGAGAGCTCCGGCGCGCCCG
 GGGCATTGCCATTGTGTAGTGTGGTCTTCTCATCTCCATTGTCATCTTCTGCTTGGAGACGCTTCCC
 GAGTTTCGCGATGAGAAAGACTATCCCGCTCCCGTCGAGGACGTGTTTGAGGCTGCCAACAAACAGCA
 CGTCGGGGGCCCTTCTGGAGCCTCCAGCTTCTCGGACCCCTTCTCGTGGTGGAGACCTTGTGCATCAT
 CTGGTTCTCCTTTGAGCTTCTGGTGCGGTCTTTGCTTGGCCAGTAAAGCCACCTTCTCCAGAAATATC
 ATGAACCTGATAGACATTGTGGCCATCATTCTTATTTTACTCTGGGCACTGAGCTGGCTGAACGAC
 AAGGTAATGGGCAGCAGGCCATGTCGCTGGCCATCCTGAGAGTCATCCGCTAGTAAGGGTTTTCCGCAT
 CTTCAAGCTCTCCCGCATTCTAAGGGGCTGCAGATCCTAGGACAGACGCTGAAGGCTCCATGCGGGAG
 CTGGGGCTGCTCATATTCTTCTTTCATTGGGGTTCATCTTCTCCAGTGCAGTCTACTTTGCTGAGG
 CAGACGACCCTTCTCGGGTTTTAACAGTATCCCGGATGCCTTCTGGTGGGCAGTAGTAACCATGACAAC
 TGTGGTTATGGTGATATGCACCCAGTACCATAGGAGGCAAGATTGTGGGCTCTCTTTGTGCCATCGCA
 GGTGTCTTGACCATTGCATTGCCAGTTCCTGTGATTGTTTCCAACCTCAACTACTTCTACCACCGGAGAG
 CAGAAGGGGAAGAGCAAGCCAGTACATGCACGTGGGAGTGGCAGCACCTCTCCTCTTCCAGCCGAGGA
 GCTCCGAAAAGCCCGGAGTAACCTCACTCTGAGTAAGTCCGAGTATATGGTGATCGAAGAGGGGGTATG
 AACACAGCGCCTTCCCGCAGACCCCTTCAAACGGGCAACTCCACAGCCACTTGACCCACGAACAATA
 ACCCAACTCTGTGTCAACATCAAGAAGATATCACTGATGTC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_008418
- Insert Size:** 1587 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_008418.2](#), [NP_032444.2](#)

RefSeq Size: 1968 bp

RefSeq ORF: 1587 bp

Locus ID: 16491

UniProt ID: [P16390](#)

Cytogenetics: 3 46.59 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.[UniProtKB/Swiss-Prot Function]