OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC219275

Kcnc1 (NM_001112739) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnc1 (NM_001112739) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnc1
Synonyms:	C230009H10Rik; Kcr2-1; KShIIIB; Kv3.1; KV4; NGK2; Shaw
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

Fully Sequenced ORF:

>MC219275 representing NM_001112739
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCAAGGGGACGAGAGCGAGCGCATCGTGATCAACGTGGGCGGCACGCGCCACCAGACGTACCGCT
CGACGCTGCGCACGCTGCCCGGCACGCGGCTTGCCTGGCTGGCAGAGCCGGACGCCCACAGCCACTTCGA
CTATGACCCGCGTGCCGACGAGTTCTTCTTCGACCGCCACCCGGGCGTCTTCGCTCACATCCTGAACTAT
TACCGCACCGGCAAGCTTCACTGCCCGGCCGACGTGTGCGGGCCGCTCTACGAGGAGGAGCTGGCCTTCT
GGGGCATCGACGAGACGGACGTGGAGCCCTGCTGCTGGATGACCTATCGCCAGCACCGAGACGCTGAGGA
GGCGCTGGACAGCTTTGGCGGTGCGCCCTTGGACAACAGCGCCGACGACGCGGACGCCGACGGCCCCGGC
GACTCGGGCGACGGCGAGGACGAGCTGGAGATGACCAAGAGATTGGCACTCAGTGACTCCCCAGATGGCC
GGCCTGGCGGCTTCTGGCGCCGCTGGCAACCGCGCATCTGGGCGCTGTTCGAGGACCCCTACTCATCCCG
CTACGCGCGGTATGTGGCCTTTGCCTCCCTCTTCTTCATCCTGGTCTCCATCACAACCTTCTGTCTGGAG
ACTCACGAGCGCTTCAACCCCATCGTGAACAAGACCGAAATCGAGAACGTTCGAAACGGCACCCAAGTGC
GGTACTACCGGGAAGCAGAGACGGAGGCCTTCCTCACCTACATCGAGGGCGTCTGCGTGGTCTGGTTCAC
CTTCGAGTTCCTCATGCGTGTCGTCTTCTGCCCCAACAAGGTGGAATTCATCAAGAACTCCCTCAATATC
ATTGACTTTGTGGCCATTCTCCCCTTCTACCTGGAGGTGGGCCTAAGCGGCCTGTCCTCAAAAGCCGCCA
AGGACGTTCTGGGCTTCCTGCGCGTCGTCCGCTTCGTGCGCATCCTGCGCATCTTCAAGCTGACCCGCCA
CTTCGTGGGCCTGAGGGTCCTGGGCCACACGCTCCGTGCCAGCACCAACGAGTTCCTGCTGCTTATCATC
TTCCTGGCCCTGGGAGTGCTCATCTTTGCCACCATGATCTACTACGCCGAGAGGATAGGGGCACAGCCCA
ATGACCCCAGCGCCAGCGAACACACACACTTTAAAAACATCCCCATCGGCTTCTGGTGGGCTGTGGTCAC
CATGACGACACTGGGCTATGGAGACATGTATCCCCAGACGTGGTCTGGAATGCTGGTGGGAGCCTTGTGT
GCTCTGGCTGGTGTGCTGACCATTGCCATGCCGGTGCCTGTCATCGTGAACAATTTTGGGATGTACTACT
CTTTAGCCATGGCTAAGCAGAAACTACCAAAGAAAAAAAAGAAGCATATTCCGCGGCCACCACAGCTGGG
ATCTCCCAATTATTGTAAATCTGTCGTAAACTCTCCACACCACAGTACTCAGAGTGACACATGCCCGCTG
GCCCAGGAAGAAATTTTAGAAATTAACAGAGCAGATTCCAAACTGAATGGGGAGGTGGCGAAGGCCGCGC
TGGCGAACGAAGACTGCCCCCACATAGACCAGGCCCTCACTCCCGATGAGGGCCTGCCCTTTACCCGCTC
GGGCACCCGCGAGAGATACGGACCCTGCTTCCTCTTATCAACCGGGGAGTACGCGTGCCCACCTGGTGGA
GGAATGAGAAAGGATCTTTGCAAAGAAAGCCCTGTCATTGCTAAGTATATGCCGACAGAGGCTGTGAGAG
TGACTTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001112739

Insert Size: 1758 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_001112739.2, NP_001106210.1
RefSeq Size:	4336 bp
RefSeq ORF:	1758 bp
Locus ID:	16502
Cytogenetics:	7 30.1 cM
Gene Summary:	Voltage-gated potassium channel that plays an important role in the rapid repolarization of fast-firing brain neurons. The channel opens in response to the voltage difference across the membrane, forming a potassium-selective channel through which potassium ions pass in accordance with their electrochemical gradient (PubMed:2599109, PubMed:1400413). Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNC2, and possibly other family members as well. Contributes to fire sustained trains of very brief action potentials at high frequency in pallidal neurons. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.