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 MC208811

Kcnk2 (NM_010607) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnk2 (NM_010607) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnk2
Synonyms:	A430027H14Rik; AI848635; TREK-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC208811 representing NM_010607 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGCCCCTGACTTGCTGGATCCCAAGTCTGCTGCTCAGAACTCCAAACCGAGGCTCTCATTCTCCT CAAAACCCACCGTGCTTGCTTCCCGGGTGGAGAGTGACTCGGCCATTAATGTTATGAAATGGAAGACAGT CTCCACGATTTTCCTGGTGGTCGTCCTCTACCTGATCATCGGAGCCACGGTGTTCAAGGCATTGGAGCAG CCTCAGGAGATTTCCCAGAGGACCACCATTGTGATCCAGAAGCAGACCTTCATAGCCCAGCATGCCTGCG TCAACTCCACCGAGCTGGACGAACTCATCCAGCAAATAGTGGCAGCAATAAACGCAGGGATTATCCCCTT AGGAAACAGCTCCAATCAAGTTAGTCACTGGGACCTCGGAAGCTCTTTCTTCTTTGCTGGTACTGTTATC ACAACCATAGGATTTGGAAACATCTCCCCACGAACTGAAGGTGGAAAAATATTCTGCATCATCTATGCCT TGCTGGGAATTCCCCTCTTTGGCTTTCTACTGGCTGGGGTTGGTGATCAGCTAGGAACTATATTTGGAAA AGGAATTGCCAAAGTGGAAGACACATTTATTAAGTGGAATGTTAGTCAGACGAAGATTCGTATCATCTCC ACCATCATCTTCATCCTGTTTGGCTGTGTCCTCTTTGTGGCTCTCCCTGCGGTCATATTCAAGCACATAG AAGGCTGGAGCGCCCTGGACGCTATCTATTTTGTGGTTATCACTCTGACGACCATTGGATTTGGAGACTA CGTGGCAGGTGGATCAGACATTGAATATCTGGACTTCTACAAGCCTGTGGTGTGGTTCTGGATCCTCGTT GGGCTGGCCTACTTTGCAGCTGTTCTGAGCATGATTGGGGACTGGCTACGGGTGATCTCTAAGAAGACGA AGGAAGAGGTGGGAGAGTTCAGAGCGCATGCCGCTGAGTGGACAGCCAATGTCACGGCCGAGTTCAAGGA AACGAGGAGGCGGCTGAGCGTGGAGATCTACGACAAGTTCCAGCGTGCCACATCCGTGAAGCGGAAGCTC TCCGCAGAGCTGGCGGGCAACCACAACCAGGAACTGACTCCGTGTAGGAGGACCCTGTCTGTGAACCACC TGACCAGCGAGAGGGAAGTCCTGCCTCCCTTGCTGAAGGCTGAGAGCATCTATCTGAACGGTCTGACACC ACACTGTGCTGGTGAGGACATAGCTGTCATTGAGAACATGAAGTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

View online »

Restriction Sites:	SgfI-MluI
ACCN:	NM_010607
Insert Size:	1236 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_010607.3, NP_034737.2
RefSeq Size:	3519 bp
RefSeq ORF:	1236 bp
Locus ID:	16526
UniProt ID:	P97438
Cytogenetics:	1 H6
Gene Summary:	Ion channel that contributes to passive transmembrane potassium transport. Reversibly converts between a voltage-insensitive potassium leak channel and a voltage-dependent outward rectifying potassium channel in a phosphorylation-dependent manner. In astrocytes, forms mostly heterodimeric potassium channels with KCNK1, with only a minor proportion of functional channels containing homodimeric KCNK2 (PubMed:24496152). In astrocytes, the heterodimer formed by KCNK1 and KCNK2 is required for rapid glutamate release in response to activation of G-protein coupled receptors, such as F2R and CNR1 (PubMed:24496152).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) uses an alternate 5' terminal exon and thus differs in the 5' UTR and 5' coding region compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to 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.