

Product datasheet for **MC217713**

Kcnk2 (BC062094) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnk2 (BC062094) 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: >BC062094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGCAGTGGCGGCCCTGACTTGCTGGATCCCAAGTCTGCTGCTCAGAACTCCAAACCGAGGCTCT
 CATTCTCCTCAAACCCACCGTCTTGGCTCCCGGGTGGAGAGTACTCGGCCATTAATGTTATGAAATG
 GAAGACAGTCTCCACGATTTTCCTGGTGGTCTGCTCTACCTGATCATCGGAGCCACGGTGTCAAGGCA
 TTGGAGCAGCCTCAGGAGATTTCCAGAGGACCACCATTTGTGATCCAGAAGCAGACCTTCATAGCCAGC
 ATGCCTGCGTCAACTCCACCGAGCTGGAGCAACTCATCCAGCAAATAGTGGCAGCAATAAACGCAGGGAT
 TATCCCCTTAGGAAACAGCTCCAATCAAGTTAGTCACTGGGACCTCGGAAGCTCTTTCTTCTTGGCTGGT
 ACTGTTATCACAACCATAGGATTTGAAACATCTCCACGAAGTGAAGGTGGAAAAATATTCTGCATCA
 TCTATGCCTTGTGGGAATTCCTCTTTGGCTTTCTACTGGCTGGGGTTGGTGATCAGCTAGGAACTAT
 ATTTGGAAAAGGAATTGCCAAAGTGAAGACACATTTATTAAGTGAATGTTAGTCAGACGAAGATTCGT
 ATCATCTCCACCATCATCTTCATCCTGTTTGGCTGTGCCTCTTTGTGGCTCTCCCTGCGGTATATTCA
 AGCACATAGAAGGCTGGAGCGCCCTGGACGCTATCTATTTGTGGTTACTACTGACGACCATTTGGATT
 TGGAGACTACGTGGCAGGTGGATCAGACATTGAATATCTGGACTTCTACAAGCCTGTGGTGTGGTTCTGG
 ATCCTCGTTGGGCTGGCCTACTTTGCAGCTGTTCTGAGCATGATTGGGGACTGGCTACGGGTGATCTCTA
 AGAAGACGAAGGAAGAGGTGGGAGAGTTGAGAGCGCATGCCGCTGAGTGGACAGCCAATGTCACGGCCGA
 GTTCAAGGAAACGAGGAGGCGGCTGAGCGTGGAGATCTACGACAAGTCCAGCGTGCCACATCCGTGAAG
 CGGAAGCTCTCCGAGAGCTGGCGGGCAACCACAACCAGGAAGTACTCCGTGTAGGAGGACCCTGTCTG
 TGAACCACCTGACCAGCGAGAGGGAAGTCTGCCTCCCTTGTGAAGGCTGAGAGCATCTATCTGAACGG
 TCTGACACCACACTGTGCTGGTGGAGACATAGCTGTCATTGAGAACATGAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	BC062094
Insert Size:	1245 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:	<ol style="list-style-type: none">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:	BC062094 , AAH62094
RefSeq Size:	3228 bp
RefSeq ORF:	1244 bp
Locus ID:	16526
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]