

## Product datasheet for RC210180

### KCNK2 (NM\_014217) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | KCNK2 (NM_014217) Human Tagged ORF Clone                          |
| Tag:                      | Myc-DDK   |
| Symbol:                   | KCNK2   |
| Synonyms:                 | hTREK-1c; hTREK-1e; K2p2.1; TPKC1; TREK; TREK-1; TREK1            |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC210180 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCACCTGACTTGCTGGATCCTAAATCTGCCGCTCAGAACTCCAAACCGAGGCTCTCGTTTTCCA  
CGAAACCCACAGTGCTTGCTTCCCGGTGGAGAGTGACACGACCATTAATGTTATGAAATGGAAGACGGT  
CTCCACGATATTCCTGGTGGTTGCTCTATCTGATCATCGGAGCCACCGTGTCAAAGCATTGGAGCAG  
CCTCATGAGATTCACAGAGGACCACCATTGTGATCCAGAAGCAAACATTCATATCCAACATTCCTGTG  
TCAATTCGACGGAGCTGGATGAACTCATTAGCAAAATAGTGGCAGCAATAAATGCAGGGATTATACCGTT  
AGGAAACACCTCCAATCAAATCAGTCACCTGGGATTTGGGAAGTTCCTTCTTTGCTGGCACTGTTATT  
ACAACCATAGGATTTGAAACATCTCACCACGCACAGAAGCGCGCAAAATATTCTGTATCATCTATGCCT  
TACTGGGAATTCCTCTTTGGTTTTCTTGGCTGGAGTTGGAGATCAGCTAGGCACCATATTTGGAAA  
AGGAATTGCCAAAGTGAAGATACGTTTAAAGTGAATGTTAGTCAGACCAAGATTCGCATCATCTCA  
ACAATCATATTTATACTATTTGGCTGTGTACTCTTTGGCTCTGCCTGCGATCATATTCAAACACATAG  
AAGGCTGGAGTGCCCTGGACGCCATTTATTTGTGGTTATCACTTAACAATTTGGATTTGGTGACTA  
CGTTGCAGGTGGATCCGATATTTGAATATCTGGACTTCTATAAGCCTGTCGTGTGGTTCTGGATCCTTGA  
GGCTTGTCTACTTTGCTGCTGTCTGAGCATGATTGGAGATTGGCTCCGAGTGATATCTAAAAGACAA  
AAGAAGAGGTGGGAGAGTTCAGAGCACACGCTGCTGAGTGGACAGCCAAGTCCAGCCGAATTCAAAGA  
AACCAGGAGGCGACTGAGTGTGGAGATTTATGACAAGTCCAGCGGGCCACCTCCATCAAGCGGAAGCTC  
TCGGCAGAACTGGCTGGAACCACAATCAGGAGCTGACTCCTTGTAGGAGGACCCTGTCAGTGAACCACC  
TGACCAGCGAGAGGGATGTCTTGCTCCCTTACTGAAGACTGAGAGTATCTATCTGAATGGTTTGACGCC  
ACACTGTGCTGGTGAAGAGATTGCTGTGATTGAGAATCAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_014217.4](#)

**RefSeq Size:** 3274 bp

**RefSeq ORF:** 1236 bp

**Locus ID:** 3776

**UniProt ID:** [O95069](#)

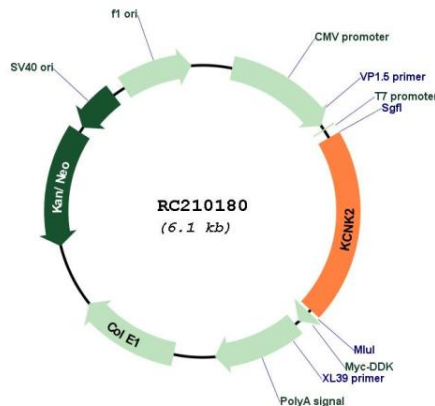
**Cytogenetics:** 1q41

**Protein Families:** Druggable Genome, Ion Channels: Potassium, Transmembrane

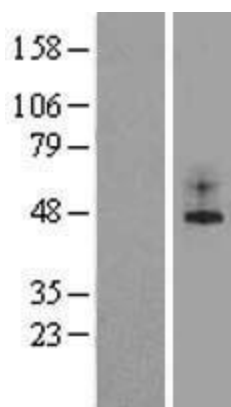
**MW:** 45.5 kDa

**Gene Summary:** This gene encodes one of the members of the two-pore-domain background potassium channel protein family. This type of potassium channel is formed by two homodimers that create a channel that leaks potassium out of the cell to control resting membrane potential. The channel can be opened, however, by certain anesthetics, membrane stretching, intracellular acidosis, and heat. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC210180



Western blot validation of overexpression lysate (Cat# [LY415432]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210180 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).