

## Product datasheet for **RN212265**

### **Kcnk10 (NM\_023096) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnk10 (NM_023096) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnk10
Synonyms:	TREK2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN212265 representing NM\_023096  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAATTTCCAATCGAGACGCCAAGAAAGCAGGTGAACTGGGATCCTAAAGTGCCGTGCCTGCAGCAG  
 CCCACCAGTGTGCCAGCCCAAGAGTGCCACTAACGGGCACCATCCTGTTCTCGACTCTCCATTTCTC  
 CAGAGCCACGGTGGTAGCCAGGATGGAAGGCGCCTCCAGGGAGGCCTGCAAACAGTTATGAAATGGAAA  
 ACAGTGGTTGCCATCTTTGTGGTGGTCTGTTGCTACCTCGTCACCGGTGGCCTTGTCTTCCGGGCATTGG  
 AACAGCCCTTTGAGAGCAGTCAGAAGAACAATTGCCTTGAGAAAGGCAGAATTCTTGAGAGATCATAT  
 CTGTGTGAGCCCCAGGAACTGGAGACTGATCCAGCACGCACTTGATGCTGATAATGCAGGGTGCAGC  
 CCGGTAGGAACTCCTCAACAGCAGCAGTCAGTGGGACCTCGGAAGTGCCTTCTCTTTGCTGGGACGG  
 TCATCACGACCATAGGGTATGGGAATATTGCTCCGAGTACTGAAGGAGGCAAAATCTTTTGTATTTATA  
 CGCCATCTTTGGGATCCCGCTCTTCGGTTTCTTATTGGCTGGAATTGGAGACCAACTTGGAAACATCTTT  
 GGCAAAAGCATTGCAAGAGTGGAAAAGGTTTTCCGAAAAAAGCAAGTGAAGTCAAGACCAAGATCCGGGTCA  
 TCTCAACTATTCTTTTCACTTTGGCTGGCTGCATCGTGTGGTGTGACGATCCCTGTGTCATCTTTAATA  
 CATAGAGGGCTGGACCGCCTTGGAGTCCATCTACTTTGTGGTAGTCACTCTGACCACAGTGGGCTTTGGT  
 GATTTTGTGGCAGGGGAAATGCTGGCATCAATTACCGAGAATGGTACAAGCCGCTGGTGTGGTTTTGGA  
 TCCTTGTGGCCTTGCCACTTTGCAGCTGTCTCAGTATGATTGGAGACTGGTGCAGTTTTATCCAA  
 AAAGACAAAAGAAGAGGTGGGTGAGATCAAAGCCCATGCAGCTGAATGGAAGGCTAATGTCAGTGTGAG  
 TTCCGGGAGACGAGACGACGGCTCAGCGTTGAGATCCATGACAAGCTGCAACGGGCAGCCACCATCCGAA  
 GTATGGAGCGCCGGAGACTGGGATTGGACCAGAGGGCCCACTACTGGACATGCTTTCCCGGAGAAGCG  
 CTCTGTCTTTGCAGCCCTGGACACAGGCCGTTTCAAGGCCTCATCCAGGAGAGTATCAACAACAGACCC  
 AATAACCTACGCCTTAAGGGGCCAGAACAGCTCAACAAACACGGGCAGGGCGCTTCTGAGACAACATCA  
 TCAACAAGTTTGGGTCCACCTCCAAACTCACAAGAGGAAAAACAAGATCTCAAAAAGACCTTACCTGA  
 GGATGTTCAAGAAATCTACAAAACCTTCCGGAATTACTCTCTGGATGAAGAGAAGAAAGAGGACGAGACA  
 GAGAAGATGTGTAACCTCAGACAACCTCCAGCACAGCCATGCTGACAGAGTGCATACAGCAGCAAGCTGAGA  
 TGGAGAATGGAATGGTACCCATGGACACCAAGACCAGGGGCTGGAGAACAATCTTTACTTGAAGACAG  
 AACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_023096

**Insert Size:** 1617 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\\_023096.2](#), [NP\\_075584.1](#)

**RefSeq Size:** 3056 bp

**RefSeq ORF:** 1617 bp

**Locus ID:** 65272

**UniProt ID:** [Q9JIS4](#)

**Cytogenetics:** 6q32

**Gene Summary:** tandem-pore K(+) channel that is a mechanosensitive and fatty acid-stimulated K(+) channel [RGD, Feb 2006]