

## Product datasheet for **RR212265**

### **Kcnk10 (NM\_023096) Rat Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RR212265 representing NM\_023096  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAATTTCCAATCGAGACGCCAAGAAAGCAGGTGAACTGGGATCCTAAAGTGCCGTGCCTGCAGCAG  
 CCCACCAGTGTGCCAGCCCAAGAGTGCCACTAACGGGCACCATCCTGTTCTCGACTCTCATTTCCTC  
 CAGAGCCACGGTGGTAGCCAGGATGGAAGGCGCCTCCAGGGAGGCTGCAAACAGTTATGAAATGGAAA  
 ACAGTGGTTGCCATCTTTGTGGTGGTCTGCTACCTCGTCACCGGTGGCCTTGTCTTCCGGGCATTGG  
 AACAGCCCTTTGAGAGCAGTCAGAAGAACAATTGCCTTGAGAAAGGCAGAATTCTTGAGAGATCATAT  
 CTGTGTGAGCCCCAGGAACTGGAGACTGATCCAGCACGCACTTGATGCTGATAATGCAGGGTCAAGC  
 CCGGTAGGAACTCCTCAACAGCAGCAGTCAGTGGGACCTCGGAAGTGCCTTCTTTTGTGGGACGG  
 TCATCACGACCATAGGGATGGGAATATTGCTCCGAGTACTGAAGGAGGCAAAATCTTTTGTATTTATA  
 CGCCATCTTTGGGATCCCGCTCTTCGGTTTCTTATTGGCTGGAATTGGAGACCAACTTGGAAACATCTT  
 GGCAAAAGCATTGCAAGAGTGGAAAAGGTTTTCCGAAAAAAGCAAGTGAGTCAGACCAAGATCCGGGTCA  
 TCTCAACTATTCTTTTCACTTGGCTGGCTGCATCGTGTGGTGTGACGATCCCTGTGTCATCTTTAATA  
 CATAGAGGGTGGACCGCCTTGGAGTCCATCTACTTTGTGGTAGTCACTCTGACCACAGTGGGCTTTGGT  
 GATTTTGTGGCAGGGGAAATGCTGGCATCAATTACCGAGAATGGTACAAGCCGCTGGTGTGGTTTTGGA  
 TCCTTGTGGCCTTGCCACTTTGCAGCTGTCTCAGTATGATTGGAGACTGGTGCAGTTTTATCCAA  
 AAAGACAAAAGAAGGTGGGTGAGATCAAAGCCATGCAGCTGAATGGAAGGCTAATGTCAGTCTGAG  
 TTCCGGGAGACGAGACGACGGCTCAGCGTTGAGATCCATGACAAGCTGCAACGGGACGCCACCATCCGAA  
 GTATGGAGCGCCGGAGACTGGGATTGGACCAAGGGCCCACTACTGGACATGCTTTCCCGGAGAACCG  
 CTCTGTCTTTGCAGCCCTGGACACAGGCCGTTTTCAAGGCCTCATCCAGGAGAGTATCAACAACAGACCC  
 AATAACCTACGCCTTAAGGGGCCAGAACAGCTCAACAAACACGGGACGGGCGCTTCTGAGACAACATCA  
 TCAACAAGTTTGGGTCCACCTCCAAACTCACAAGAGGAAAAACAAGATCTCAAAAAGACCTTACCTGA  
 GGATGTTAGAAAATCTACAAAACCTTCCGGAATTACTCTCTGGATGAAGAGAAGAAAGAGGACGAGACA  
 GAGAAGATGTGTAACAGACAACCTCCAGCACAGCCATGCTGACAGAGTGCATACAGCAGCAAGCTGAGA  
 TGGAGAATGGAATGGTACCCATGGACACCAAGACCAGGGGCTGGAGAACAATCTTTACTTGAAGACAG  
 AAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212265 representing NM\_023096  
 Red=Cloning site Green=Tags(s)

MKFPIETPRKQVNDPKVAVPAAAPPVCQPKSATNGHPVPRLSISSRATVVARMEGASQGGQLQVMKWK  
 TVVAIFVVVVVYLVTGGLVFRALQPFESSQKNTIALEKAFLRDHICVSPQLETLIQHALDADNAGVS  
 PVGNSSNSSHWDLGSAFFAGTVITTTIGYGNIAIPSTEGGKIFCILYAFIPIPLFGFLLAGIGDQLGTIF  
 GKSIARVEKVFRRKQVSQTKIRVISTILFILAGCIVFVTIPAVIFKYIEGWTALESIFYVVVTLTTVGF  
 DFVAGGNAGINREWKPLVWFILVGLAYFAAVLSMIGDWRVLSKKTKEEVGEIKAHAAEWKANVTAE  
 FRETRRRLSVEIHDKLQRAATIRSMERRRLGLDQRAHSLDMLSPEKRSVFAALDTGRFKASSQESINNR  
 NNLRLKGPQLNKHGQASEDNIINKFGSTSKLTKRKNKDLKKTLPEDVQKIYKTFRNYSLDEEKEDET  
 EKMCNSDNSSTAMLTECIQQQAEMENGMVPMDDTKDQGLENNSLLEDNRN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023096

**ORF Size:** 1614 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

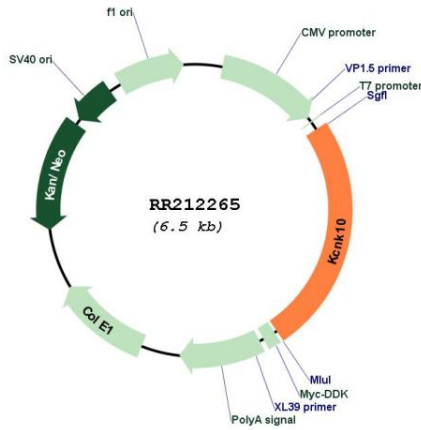
**RefSeq ORF:** 1617 bp

**Locus ID:** 65272

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

**Cytogenetics:** 6q32  
**MW:** 59.8 kDa  
**Gene Summary:** tandem-pore K(+) channel that is a mechanosensitive and fatty acid-stimulated K(+) channel [RGD, Feb 2006]

**Product images:**



Circular map for RR212265