

## Product datasheet for **MR221222**

### **Kcnk10 (NM\_029911) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnk10 (NM_029911) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnk10
Synonyms:	1700024D23Rik; 3010005K24Rik; Trek2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221222 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATATTTTCTACATAGGTTACTTCTTCTCTCCTTTGGTGGCCGTCCTGCAGCAGCCCCACCAG  
 TGTGCCAGCCCAAGAGTGCCACTAACGGGCATCACCTGTTCTCGACTCTCCATTTCTCTCGAGCCAC  
 GGTGGTAGCCAGGATGGAAGCGCCTCCAGGGAGGCCTGCAAACAGTTATGAAGTGAAAAACAGTGGTT  
 GCCATCTTCGTGGTGGTGGTCTACCTCGTCACTGGTGGCCTTGCTTCCGGGCTTGGAAACAGCCCT  
 TCGAGAGCAGTCAGAAGAACAATCGCCTTGGAGAAGGCAGAATTCTTGAGAGATCACATCTGTGTGAG  
 TCCCCAGAACTAGAGACTGATTGAGCATGCACTCGATGCTGATAACGCGGAGTCAGCCAGTAGGA  
 AACTCTCCAACAGCAGCAGTCACTGGGACCTTGAAGTGCCTTCTTCTTGTGGGACAGTCATCACAA  
 CCATAGGGTATGGGAATATTGCTCCGAGCACTGAAGGAGGCAAAATCTTTTGTATTTTATATGCCATCTT  
 TGGGATCCGCTTTTGGTTTCTATTGGCTGGAATTGGAGACCAACTTGAACCATCTTTGGCAAAGC  
 ATTGCAAGAGTGGAAAAGGTTTTTCGAAAGAAGCAAGTGAGCCAGACCAAGATCCGGGTCATCTCCACGA  
 TTCTCTTCATCTTGGCTGGCTGCATCGTGTGTTGTGACCATCCCTGCTGTCATCTTAAATACATCGAGGG  
 TTGGACCGCTTGGAGTCCATCTACTTTGTGGTAGTCACGCTGACCACAGTAGGCTTTGGTGATTTTGTG  
 GCAGGGGGAAATGCTGGCATCAATTACCGAGAGTGGTACAAGCCGCTGGTGTGGTTTTGGATCCTTGTG  
 GCCTTGCCTACTTTGCAGCTGCCTCAGTATGATCGGAGACTGGCTGCGGGTTTTATCCAAAAGACAAA  
 AGAAGAGGTTGGTGAATCAAAGCCACGCACTGAGTGAAGGCTAATGTCAGTCTGAGTCCGGGAG  
 ACGAGAAGCGGCTCAGCGTTGAGATCCATGACAAGCTGCAACGGGCAGCCACTATCCGAAGTATGGAGC  
 GCCGGAGGCTAGGCTTGGACAGAGGGCCCACTACTGGACATGCTATCCCTGAGAAGCGTTCTGTCTT  
 TGCAGCCCTGGACACAGGCCGTTTCAAGGCCTCATCGCAGGAGAGTATCAACAACAGACCAACAACCTA  
 CGCCTTAAGGGCCAGAACAGCTTACAAAACATGGGCAGGGCGTCTGAGGACAACATCATCAACAAGT  
 TTGGTCCACCTCCAAACTCACAAAGAGGAAAAACAAAGATCTCAAAAAGACCTTACCCGAGGATGTTCA  
 GAAAATCTACAAAACCTTCCGGAATTACTCTCTGGATGAAGAGAAGAAAGAGGACGAGACAGAAAAGATG  
 TGTAACTCCGACAACCTCCAGCACAGCCATGCTGACAGAGTGTATACAGCAGCAAGCTGAGATGGAGAACG  
 GAATGGTACCCACGGACACCAAAGACCAGGGGCTGGAGAACAATTCTTTACTTGAAGACAGAAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221222 protein sequence  
 Red=Cloning site Green=Tags(s)

MYFSYIGYFFLPLVAVPAAAPPVCQPKSATNGHHPVPRLSISSRATVVARMEGASQGGLQTMKWKTVV  
 AIFVVVVVYLVTGGLVFRALDQPFESSQKNTIALEKAFLRDHICVSPQLETLIQHALDADNAGVSPVG  
 NSSNSSSHWDLGSAFFAGTVITTIYGNIAIPSTEGGKIFCILYAFIPIPLFGFLLAGIGDQLGTIFGKS  
 IARVEKVFRRKQVSQTKIRVISTILFILAGCIVFVTIPAVIFKYIEGWTALESYFVVVTLTTVFGDFV  
 AGGNAGINYREWKPLVWFVILVGLAYFAAVLSMIGDWLRVLSKTKEEVGEIKAHAAEWKANVTAEFRE  
 TRRRLSVEIHDKLQRAATIRSMERRRLGLDQRAHSLDMLSPEKRSVFAALDTGRFKASSQESINNRPNL  
 RLKGPEQLTKHGQGAEDNIINKFGSTSKLTKRKNKDLKKTLPEDVQKIYKTFRNYSLDEEKKEDETEKM  
 CNSDNSSTAMLTECIQQQAEMENGMVPTDQGLDQLENNSLLEDRN

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_029911

ORF Size: 1608 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

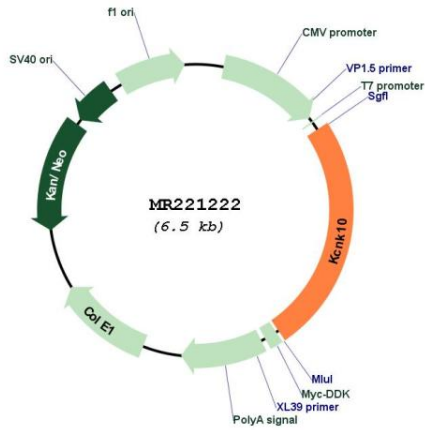
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_029911.2](#), [NM\\_029911.3](#), [NM\\_029911.4](#), [NM\\_029911.5](#), [NP\\_084187.2](#)  
 RefSeq Size: 2533 bp  
 RefSeq ORF: 1608 bp  
 Locus ID: 72258  
 Cytogenetics: 12 E  
 MW: 59.4 kDa

**Product images:**



Circular map for MR221222