

## Product datasheet for **RN209907**

### **Kcnj1 (NM\_017023) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnj1 (NM\_017023) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kcnj1  
**Synonyms:** KAB-1; Kcnj; kir1.1; ROMK1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN209907 representing NM\_017023  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGCGCTTCGGAACGGAGTGTGTTCCAGAGTCTGATCAGGGCACTGACAGAAAGGATGTTCAAACACC  
TCCGAAGATGGTTTGTCACTCACATATTTGGGCGTCCCGGCAACGGCAAGGCTGGTCTCTAAAGAAGG  
AAGATGTAACATCGAGTTTGGCAATGTGGATGCACAGTCAAGGTTTATATCTTTGTGGACATCTGGACA  
ACTGTGCTGGACCTGAAATGGAGGTACAAAATGACCGTGTTCATCACAGCCTTCTGGGGAGTTGGTTCC  
TCTTTGGTCTCCTGTGGTATGTCGTAGCGTATGTTTCATAAGGACCTCCAGAGTTCTACCCGCTGACAA  
CCGCACTCCTTGTGGAGAACATTAATGGCATGACTTCAGCCTTCTGTTTTCTCTAGAGACTCAAGTG  
ACCATAGGTTACGGATTCAGGTTTGTGACAGAACAGTGCGCCACTGCCATTTTCTGCTTATCTTCCAAT  
CTATTCTGGAGTGATCATCAATTCCTTCATGTGTGGTGCATTTTAGCCAAGATCTCTAGACCTAAAAA  
ACGTGCTAAAACCATTACGTTACGAAGAATGCGGTGATCAGCAAGCGTGGCGGAAGCTCTGCCTCCTC  
ATCCGAGTGGCCAATCTTAGGAAGAGCCTTCTGATTGGCAGCCACATATATGGCAAGCTTCTAAAGACAA  
CCATCACTCCTGAAGGCGAGACCATCATTTGGATCAGACCAACATCAACTTTGTCGTCGACGCTGGCAA  
TGAAAATTTGTTCTTCATATCCCACTGACGATCTACCACATTATTGACCACAACAGCCCTTTCTCCAC  
ATGGCAGCAGAACTCTTTCCCAACAGGACTTTGAGCTGGTGGTCTTTTTAGATGGCACAGTGGAATCCA  
CCAGTGCAACCTGCCAGGTCCGCACGTACACGTCAGAGGAGGTACTTTGGGGCTACCGTTTCTGTTCC  
TATTGTGTTCAAGACCAAGGAAGGGAAATACCGAGTGGATTTTTCATAACTTCGGTAAGACAGTGGAAGTG  
GAGACCCCTCACTGTGCCATGTGCCTCTATAATGAGAAAGATGCCAGGGCCAGGATGAAGAGAGGCTATG  
ACAACCCTAACTTTGCTTGTGAGAAGTTGATGAAACGGACGACACCCAGATG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_017023   |
| <b>Insert Size:</b>           | 1176 bp   |
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u>NM_017023.2</u> , <u>NP_058719.2</u>   |
| <b>RefSeq Size:</b>           | 2999 bp   |
| <b>RefSeq ORF:</b>            | 1176 bp   |
| <b>Locus ID:</b>              | 24521   |
| <b>Cytogenetics:</b>          | 8q21  |
| <b>Gene Summary:</b>          | potassium channel involved in K <sup>+</sup> secretion in the renal distal nephron [RGD, Feb 2006]<br>Transcript Variant: This variant (1, also known as ROMK1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.                                   |