

## Product datasheet for **RR216807**

### **Kcnf1 (NM\_001169104) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnf1 (NM_001169104) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnf1
Synonyms:	Kh1; Kv5.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR216807 representing NM\_001169104  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAACCGGGCTTGAAGCGAACCCACCAGGAGCATGGACGCATCTGCGGAGCAAAGCCTCCCAGAGC  
 CAGGCAGCCAGGACTCTGTGGCAGGCGATGACATTGAGATCGTGGTAAATGTGGGGGCGTGCGGCAGGT  
 GCTCTATGGAGACCTGCTCAGCCAGTATCCCGAGACGCGGCTGGCAGAGCTCATCAACTGCTTGGCGGG  
 GGCTACGACACCATCTTCTCTGTGCGATGATTACGACCCAGGCAAGCGCAATTCTACTTTGATCGGG  
 ACCCGGACGCGTTCAAGTGTGTCATTGAAGTACTATTTGCGTGAGGTCCACATGAAGAAAGGCATCTG  
 CCCTATCTGCTTCAAGAACGAGATGGACTTCTGGAAGGTGGACCTCAAATTCCTGGATGACTGTTGCAAG  
 AGCCATCTGAGTGAGAAGCGCGAGGAAGTGGAGGAAATCGCGCGAGGGTGCAGCTCATCTTGGACGACC  
 TGGGTGTAGACGCTGCCGAGGGCCGCTGGCGCCGCTGCCAGAAGTGTGTCTGGAAGTTCCTGGAGAAGCC  
 GGAGTCTTCGTGCCAGCGCGGGTGGTGGCAGTTCTATCCTTTTTGCTCATCCTTGTCTCCTCCGTGGTC  
 ATGTGCATGGGACCATACCTGAGCTGCAAGTGGTGGACTCTGAAGGCAACCGCTAGAGCACCCGACGC  
 TGGAGAACGTGGAGACTGCTTGCATCGGCTGGTCACTCTGGAGTACCTGCTGCGCCTCTTCTCATCGCC  
 CAACAAGCTGCACTTTGCCCTGTCTTCATGAACATTGTGGATGTGCTGGCCATTCTCCCTTCTATGTG  
 AGCCTCACACTCACGCATCTGGGTGCAAGAATGATGGAAGTACCAACGTGCAGCAGGCTGTGCAGGCC  
 TAAGGATCATGCGCATCGCACGCATCTCAAGTAGCCCGCCACTCCTCAGGCCTGCAGACCCCTCACCTA  
 CGCTCTCAAGCGCAGTTTCAAGGAAGTGGGCTATTGCTTATGTACCTGGCCGTGGGCATCTTCGCTTC  
 TCCGACTAGGCTACACCATGGAGCAGAGCCACCCTGAAACTCTGTTCAAGAGCATCCCCAGTCTTCT  
 GGTGGCTATCATCACCATGACCACAGTGGGCTATGGCGACATCTACCCCAAGACCATCTGGGCAAGCT  
 CAACGCGGCCATCAGCTTCTTGTGGGTAATTGCCATTGCCTTGCCATTACCCCATCATTAAACAAC  
 TTTGTCAGGTAATAACAACAACGTGTCTGGAGACGGCAGCAAGCATGAGCTGGAGCTGATGGAGC  
 TCAACTCCAGCAGCGCAGAAAGCAAGCCCGGGGCTCTCGCAGCGACCTGGACACCCTGCCCCAGAGCC  
 TGCTGCCAGGGAGGGCCAAGTTGGGGTAGCCGCTGAAGCTCTCACACAGCGATACCTTATTCCCTG  
 CTGACAGAGGAGAAGCATCATAGGACCCGGCTACAGAGCTGCAAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216807 representing NM\_001169104  
 Red=Cloning site Green=Tags(s)

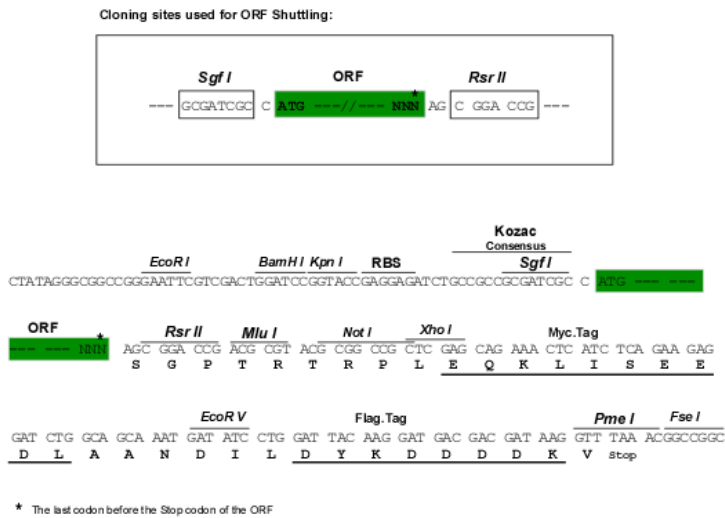
MEPGLASEPTRSMDASAEQSLPEPGSQDSVAGDDIEIVNVVGGVRQVLYGDLLSQYPETRLAELINCLAG  
 GYDTIFSLCDDYDPGKREFYFDRDPDAFKCVIEVYFGEVHMKKGICPICFKNEMDFWKVLDLKLDDCK  
 SHLSEKREELEEIARRVQLILDDLGVDAEGRWRRQCQCVWKFLEKPESSCPARVVAVLSFLLILVSSV  
 MCMGTIPELQVVDSEGNRVEHPTLENVETACIGWFTLEYLLRFLFSSPNKLHFALSFMNIVDVLAILPFYV  
 SLTLTHLGARMELTNVQQAVQALRIMRIARIFKLARHSSGLQTLTYALKRSFKELGLLMLYAVGIFVF  
 SALGYTMEQSHPETLFSIPQSFWWAIIITMTTVGYGDIYPKTTLGKLNAAISFLCGVIAIALPIHPINN  
 FVRYYNKQRVLETAAKHELELMELNSSAESKPGGSRSDTLPPPEAAREGPSWGSRLKLSHSDTFIPL  
 LTEEKHHRTRLQSK

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

Cloning Scheme:



ACCN: NM\_001169104

ORF Size: 1515 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\\_001169104.1](#), [NP\\_001162575.1](#)

RefSeq Size: 2679 bp

RefSeq ORF: 1518 bp

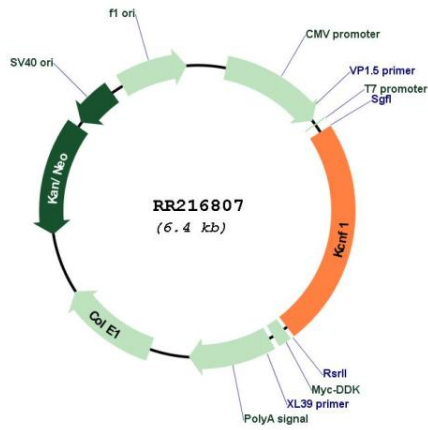
Locus ID: 298908

Cytogenetics: 6q16

MW: 56.9 kDa

Gene Summary: putative K<sup>+</sup> channel [RGD, Feb 2006]

Product images:



Circular map for RR216807