

Product datasheet for **RR200208**

Kcnk2 (NM_172042) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnk2 (NM_172042) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnk2
Synonyms:	rTREK1d; Trek-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR200208 representing NM_172042
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTGGCAGCGCTCGCGGGAGAGACCCGGCTATACCGCAGGAGTGGCGGCCCTGACTTGTGGATC
 CCAAGTCTGCTGCTCAGAACTCCAAACCGAGGCTCTCGTTCTCCGCAAAACCCACCGTGTCTGCTCCCG
 GGTGGAGAGTGACTCGGCCATTAATGTTATGAAATGGAAGACGGTCTCCACGATTTCTGGTGGTCTGTC
 CTCTACCTGATCATCGGAGCCACGGTGTCAAGGCGTTGGAGCAGCCTCAGGAGATTTCTCAGAGGACCA
 CCATTGTGATCCAGAAACAGAATTCATAGCCCAGCATGCCTGCGTCAACTCCACCGAGCTGGATGAACT
 CATCCAGCAAATAGTGACGGCCATAAATGCAGGGATTATCCCCTTAGGAAACAACCCAATCAAGTTAGT
 CACTGGGACCTCGGAAGCTTTTCTTTGCGCGCACTGTTATCACACCATAGGATTTGAAACATCT
 CCCCACGAACTGAAGGTGAAAAATATTCTGTATCATCTATGCCTTGCTGGGAATCCCCTTTGGTTT
 TCTACTGGCTGGGTTGGGGATCAGCTTGAACCATATTTGAAAAGGAATTGCCAAAGTGGAGGACACA
 TTTATTAAGTGAATGTTAGTCAGACCAAGATTGATATCATCTCGACCATCATCTTCATCCTGTTGGCT
 GTGCCTCTTCGTTGGCTCTCCCCGCGTCATATCAAGCAGATAGAAGGCTGGAGTGCCTGGACGCCAT
 CTACTTTGTGGTCATCACTCTGACCACCATTTGGATTTGGCGATTATGTGGCAGGTGGTCCGACATTGAA
 TATCTGGACTTCTACAAGCCCGTGTGTGGTCTGGATCCTCGTTGGGCTGGCCTACTTTGCGGCTGTT
 TGAGCATGATTGGAGACTGGCTACGGGTGATATCTAAGAAGACGAAGGAAGAGGTGGGAGAGTTCAGAGC
 GCATGCCGCTGAGTGGACAGCCAATGTCACAGCCGAGTCAAGGAAACAAGGAGGCGGCTGAGTGTGGAG
 ATCTATGACAAGTCCAGCGTCCACGTCGTAAGCGGAAGCTCTCTGCAGAGCTGGCGGTAACCATA
 ACCAGGAACTGACTCCATGTAGGAGGACCCTGTCGGTGAACCACCTGACCAGCGAGAGGGAAGTCCCTGCC
 TCCCTTGCTGAAGGCTGAGAGCATCTATCTGAACGGTCTGACACCACACTGTGCTGCTGAAGACATCGCT
 GTCATTGAGAACATGAAGTTCATTGAGAATGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200208 representing NM_172042
 Red=Cloning site Green=Tags(s)

MLASASRERPGYTAGVAAPDLLDPKSAAQNSKPRLSFSAKPTVLSRVESDSAINVMKWTVSTIFLVV
 LYLIIIGATVFKALEQPQEISQRTTIVIQQNFIAQHACVNSTELDELIQQIVTAINAGIPLGNNSNQVS
 HWDLGSSFFAGTVITTTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQLGTIFGKGIKVEDT
 FIKWNVSTKIRIISTIIIFILFGCVL FVALPAVIFKHIEGWSALDAIYFVVITLTTIGFGDYVAGGSDIE
 YLDFYKPVVWFILVGLAYFAAVLSMIGDWLRVISKKTKEEVGEFRAHAAEWTANVTAEFKETRRLSVE
 IYDKFQRATSVKRKLSAELAGNHQELTPCRRTL SVNHLTSEREVL PPLLKAESIYLNGLTPHCAAEDIA
 VIENMKVIENMK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1660_d01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_172042

ORF Size: 1278 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 Size: 3187 bp

RefSeq ORF: 1281 bp

Locus ID: 170899

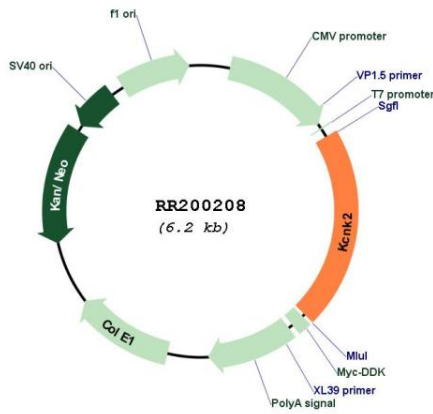
UniProt ID: [Q920B6](#)

Cytogenetics: 13q26

MW: 46.9 kDa

Gene Summary: a large conductance K⁺ channel [RGD, Feb 2006]

Product images:



Circular map for RR200208