

Product datasheet for RR214072

Kcnk4 (NM_053804) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Kcnk4 (NM_053804) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Kcnk4
 Synonyms: KT4.1; TRAAK
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR214072 representing NM_053804
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGCAGCACCACTCCTGGCTCTGCTGGCACTGGTGTGCTTTACTTGGTATCTGGGGCTCTGGTGT
 TTTATGCTCTGGAGCAGCCTCATGAGCAGCAGGTTTCTGAAAGACCTGGAAGATGGCCGAGATCAGTTTCT
 GAAGGACCATCCGTGTGTGAGCCAGAAGAACTGGAGGGTTTCAAGCTCGTGGCTGAAGCCCTGGGA
 GGGGGCGCAAACCCAGAAACAGTTGGACCAATAGCAGCAACCACTCATCAGCTTGAACCTGGGCAGCG
 CCTTCTTTTTCTCGGGACCATCATCACTACCATCGGCTACGGCAATATAGCCTTACACACAGATGCTGG
 GCGTCTCTTTGTATCTTCTATGCACTGGTGGGATCCCACTGTTCCGGATGCTGCTGGCTGGAGTCGGG
 GACCGGCTGGGCTCCTCTCTGCGCCGGGCATCGGTACATCGAAGCAGTTTTTCTGAAGTGGCATGTGC
 CACCAGGGCTGGTGAGAAATGCTGTCTGCGGTGCTTCTCTGTTGATTGGCTGCCTGCTCTTTGTCCTCAC
 TCCTACCTTCGTGTTTTCTACATGAAGAGTTGGAGCAAGCTGAAAGCCATCTACTTTGTTATAGTGACA
 CTCACCACTGTAGGCTTTGGCGATTATGTACCAGGCGATGGCACCAGGAGCAACTCTCCAGCCTACCAGC
 CGCTGGTGTGGTCTGGATCCTGTTGGCCTAGCCTACTTCGCTCAGTGTTCACCACTACGGCAACTG
 GTTGCGAGCGGTGCCCGCAACTCGCGCAGAGATGGGTGGCCTCACGGCGCAGGCTGCTAGCTGGACC
 GGCACAGTGACAGCAGAGTGACCCAGAGAAGTGGACCCAGCGCCCGCCGAGAGAAGGAGCAACCAC
 TCCTGCCCTCTTCTTGCCTGCACCTCCTGCTGTTGCTGAGCCAGCCACAGGCCGGCTCCCCCGCACC
 CGCAGAGAAGGTCGAGACTCCCCCGCCACGGCCTCAGCTCTGGATTACCCAGTGAGAATCTGGCCTTC
 ATCGACGAGTCTCAGACACGAGAGTGAGCGTGGCTGTGCCCTGCCTCGTGCCTCGGGTGGCCGCC
 GCCCAACCAACGAAGAAGCCCTCCAGACCCGGGTCTGGGCGACTCCGAGACAAGGCCGTGCCGT
 G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214072 representing NM_053804
Red=Cloning site Green=Tags(s)

MRSTLLALLALVLLYL VSGALVFYALEQPHEQQVQKDLEDGRDQFLKDHPCVSQKNLEGFIKLVAEALG
 GGANPETSWTNSSNHSSAWNLSAFFSGTIIITIGYGNIALHTDAGRLFCIFYALVGIPLFGMLLAGVG
 DRLGSSLRRGIGHIEAVFLKWHVPPGLVRMLSAVLFLIGCLLVLTPTFVFSYMKSWSKLKAIYFVIVT
 LTTVGFVDYVPGDGTGQNSPAYQPLVFWILFGLAYFASVFTTIGNWLRVSRRTAEMGGLTAQAASWT
 GTVTARVTQRTGPSAPPPEKEQPLLPSSLPAPPVAEPAHRPGSPAPAEEKVETPPPTASALDYPSENLAF
 IDESSDTQSERGCALPRAPRRRRPNPTKKPSRPRGRLRDKAVPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

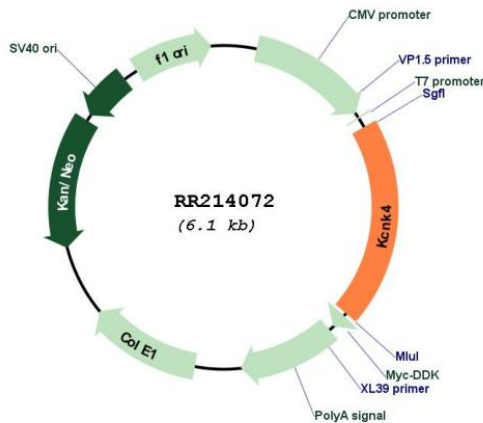
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_053804

| | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ORF Size: | 1191 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: | <ol style="list-style-type: none">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_053804.2 , NP_446256.2 |
| RefSeq Size: | 1194 bp |
| RefSeq ORF: | 1194 bp |
| Locus ID: | 116489 |
| UniProt ID: | G3V8V5 |
| Cytogenetics: | 1q43 |
| MW: | 43 kDa |
| Gene Summary: | an alkali-sensing two-pore K ⁺ channel [RGD, Feb 2006] |