

Product datasheet for **RR216559**

Kcnn4 (NM_001270702) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnn4 (NM_001270702) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnn4
Synonyms: KCa3.1; rKCNN4c; rSK4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216559 representing NM_001270702
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGGGCGGGGAGCTGGTACTGGCTGGGGCCCTGAGACGGAGAAAGCGCTGCTGGAGCAGGAGAAGA
 GGGTGGCCGGCTGGGCACTGGTACTGGCGGGAAGTGGCATCGGACTCATGGTGTGCACGCTGAGATGTT
 GTGGTTCTGGGTTGCAAGGAGGTCCAGCTGTTTCATGACTGACAACGGGCTCCGGGACTGGCGCTGGCG
 CTGACCCGGCGGCGAGGTGGCGCAGATCCTGCTGGAGCTGCTGGTATGCGGGGTGCACCCGGTGCCCTAC
 GGAGCCCGCACTGCACCCCTGGCGGGGAGGCCACAGACTCACAGGCCTGGCCGGGCTTCCTGGGCGAAGG
 CGAGGCGTTGCTGCCCTGGCCATGCTGCTACGTCTCTACCTGGTGCCTCGCGCGGTAATCTGCGTAGC
 GGGTCTGCTCAACGCGTCTTACCGCAGCATCGGGGCGCTCAACCAAGTCCGATTCCGCCACTGGTTTCG
 TGGCAAACATAACATGAACACGCACCCGGGTGCGCTGCTTGGGCTCACGCTGGGCTCTGGCTCAC
 CACAGCTTGGGTGCTGTCTGTGGCTGAGAGGCAGGCTGTCAATGCCACGGGACACCTCACAGACACTG
 TGGTGTATACCATCACGTTCTGACCATTTGGCTATGGGACGTCGTACCTGGCACCCATGGGGCAAGA
 TTGTCTGCTTGTGCACCGGAGTCATGGGGTCTGCTGCACGGCTCTACTAGTGGCTGTGGTGGCCGGAA
 GCTGGAGTTCAACAAGGCGGAGAAACAGTGCACAACCTCATGATGGACATCCATTATGCCAAAGAGATG
 AAGGAGTCGGCCGCTCGGCTGCTGCAGGAAGCCTGGATGTACTACAAACACACTCGAAGGAAGGACTCCC
 GAGCGGCTCGCAGGCATCAGCGCAAGATGCTGGTGCATCCACAGTTCGCCAGGTACGGCTGAAACA
 TCGGAAGCTCCGGGAACAAGTGAATTCATGGTGGACATCTCCAAGATGCACATGATCCTGTGCGACCTG
 CAGCTCGGGCTCAGCGCCTCGCACCTTGCCTGGAGAAGAGAATCGATGGGCTGGCAGGGAAGCTGGATG
 CCCTGACTGAAGTCTCAGTACTGCCCTGCAGCAGCAGCCGCAAGCCATCCAGGAGGCCACA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



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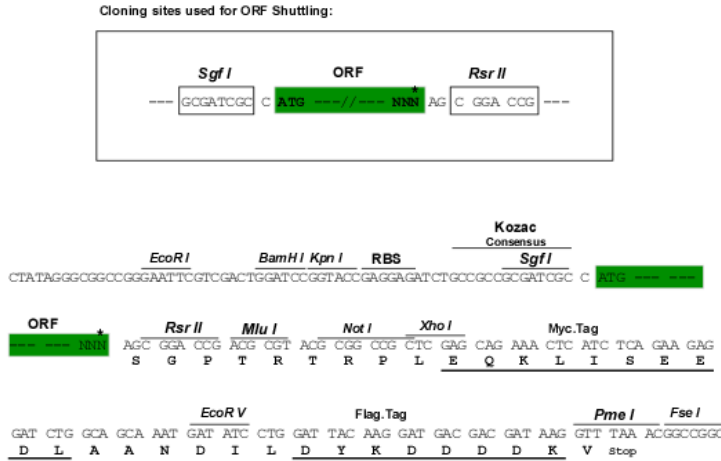
Protein Sequence: >RR216559 representing NM_001270702
 Red=Cloning site Green=Tags(s)

MGGELVTGLGALRRRKRLLEQEKRVAWALVLAGTGIGLMVLHAEMLWFLGCKEVQLFMTDNGLRDWRVAL
 LTRRQVAQILLELLVCGVHPVPLRSPHCTLAGEATDSQAWPGFLGEGEALLSLAMLLRLYLVPRAVLLRS
 GVLLNASYRSIGALNQVRFRRHWFVAKLYMNTHPGRLLGLTLGLWLTAWVLSVAERQAVNATGHLTDTL
 WLIPITFLTIGYGDVVPGLWGKIVCLCTGVMGVCCTALLVAVVARKLEFNKAEKHVHNFMMMDIHYAKEM
 KESAARLLQEAWMYKHTRRKDSRAARRHQKMLAAIHTFRQVRLKHRKLREQVNSMVDISKMHMILCDL
 QLGLSASHLALEKRIDGLAGKLDALTELLSTALQQPPEPIQEAT

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

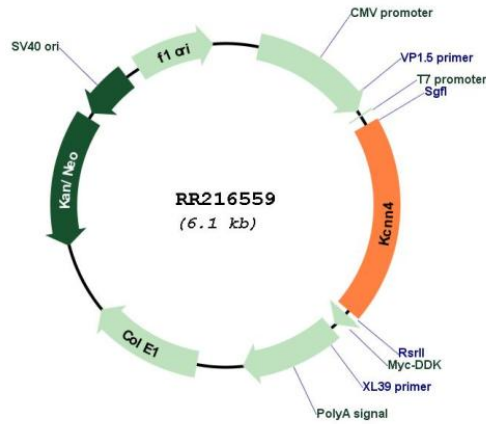
Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001270702

| | |
|-------------------------------|---|
| ORF Size: | 1185 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_001270702.1 , NP_001257631.1 |
| RefSeq Size: | 1871 bp |
| RefSeq ORF: | 1188 bp |
| Locus ID: | 65206 |
| Cytogenetics: | 1q21 |
| MW: | 44.3 kDa |
| Gene Summary: | ion channel that exhibits intermediate conductance [RGD, Feb 2006] |