

## Product datasheet for **RR210430**

### Kcnn4 (NM\_023021) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnn4 (NM_023021) 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:	>RR210430 representing NM_023021 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGGCGGGGAGCTGGTACTGGCTGGGGCCCTGAGACGGAGAAAGCGCTGCTGGAGCAGGAGAAGA  
GGGTGGCCGGCTGGGCACTGGTACTGGCGGGAAGTGGCATCGGACTCATGGTGTGCACGCTGAGATGTT  
GTGGTTCTGGGTTGCAAGTGGGTGCTGTACCTGCTCTTGTTAAGTGTAAATCACGCTGTCCACTGCC  
TTCTCTCTTTGTCTTATTGTGGTCTTCCATGCCAAGGAGTCCAGCTGTTTCATGACTGACAACGGGCTCC  
GGGACTGGCGCTGGCGCTGACCCGGCGGCAGGTGGCGCAGATCCTGCTGGAGCTGCTGGTATGCGGGGT  
GCACCCGGTGCCTACGGAGCCCGCACTGCACCTGGCGGGGAGGCCACAGACTCACAGGCTGGCCG  
GGCTTCTGGGCGAAGGCGAGGCGTGTGCTGTCCTGGCCATGCTGCTACGTCTCTACCTGGTGCCTCGCG  
CGTACTTCTGCGTAGCGGGTCTGCTCAACGCGTCTTACCGCAGCATCGGGGCGCTCAACCAAGTCCG  
ATTCGCCACTGGTTCGTGGCCAACTATACATGAACACGCACCCGGTGCCTGCTTCTGGGCTCACG  
CTGGGCTCTGGCTCACCACAGCTTGGGTGCTGTCTGTGGTGAGAGGCAGGCTGTCAATGCCACGGGAC  
ACCTCACAGACACTGTGGCTGATACCCATCACGTTCTGACCATTGGCTATGGGGACGCTGACTCTGG  
CACCTATGGGCAAGATTGTCTGCTTGTGACCGGAGTCATGGGGTCTGCTGCACGGCTCTACTAGTG  
GCTGTGGTGGCCCGAAGCTGGAGTTCAACAAGCGGAGAAACACGTGCACAACCTCATGATGGACATCC  
ATTATGCCAAAGAGATGAAGGAGTCGGCCGCTCGGCTGCTGCAGGAAGCCTGGATGTAACAACACAC  
TCGAAGGAAGGACTCCCGAGCGGCTCGCAGGCATCAGCGCAAGATGCTGGCTGCCATCCACAGTTCGCG  
CAGGTACGGCTGAAACATCGGAAGCTCCGGGAACAAGTGAATTCCATGGTGGACATCTCCAAGATGCACA  
TGATCCTGTGCGACCTGCAGCTCGGGCTCAGCGCTCGCACCTTGGCCTGGAGAAGAGAATCGATGGGCT  
GGCAGGAAGCTGGATGCCCTGACTGAAGTCTCAGTACTGCCCTGCAGCAGCAGCCGCCAGAACCATC  
CAGGAGGCCACA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTAA



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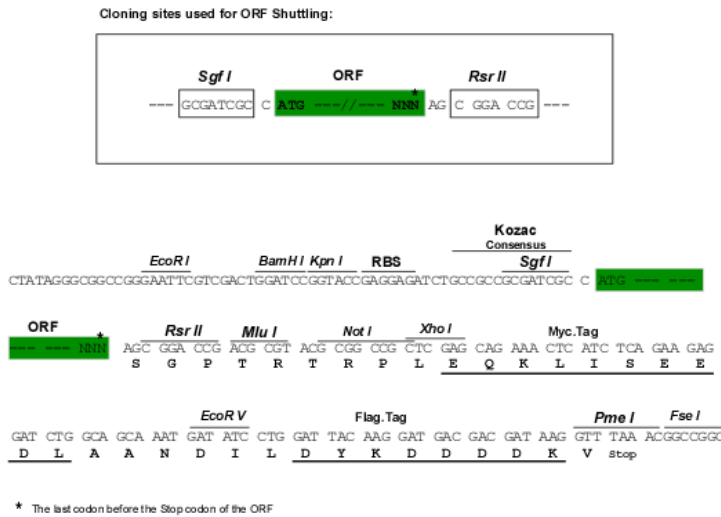
**Protein Sequence:** >RR210430 representing NM\_023021  
Red=Cloning site Green=Tags(s)

MGGELVTGLGALRRRKRLLLEQEKRVA GWALVLAGTGIGLMVLHAEMLWFLGCKWVLYLLLVKCLITLSTA  
 FLLCLIVVFHAKEVQLFMTDNGLRDWRVALTRRQVAQILLELLVCGVHPVPLRSPHCTLAGEATDSQAWP  
 GFLGEGEALLSLAMLLRLYLVPRAVLLRSGVLLNASYRSIGALNQYRFHWFVAKLYMNTHPGRLLGLT  
 LGLWLTTAWLVAERQAVNATGHLDTLWLIPITFLTIGYGDVVPGLTWGKIVCLCTGVMGVCCTALLV  
 AVVARKLEFNKAEKHVHNFMMDIHYAKEMKESAARLLQEAWMYKHKTRRKDSRAARRHRQRKMLAAIHTFR  
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 QEAT

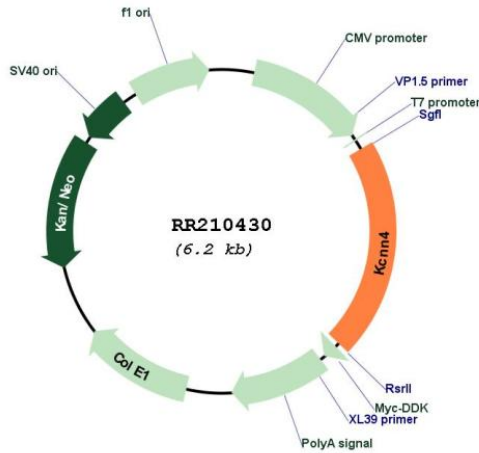
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_023021

<b>ORF Size:</b>	1272 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_023021.2</a> , <a href="#">NP_075410.2</a>
<b>RefSeq Size:</b>	1958 bp
<b>RefSeq ORF:</b>	1275 bp
<b>Locus ID:</b>	65206
<b>Cytogenetics:</b>	1q21
<b>MW:</b>	47.6 kDa
<b>Gene Summary:</b>	ion channel that exhibits intermediate conductance [RGD, Feb 2006]