

## Product datasheet for **RR215407**

### **Kcnn1 (NM\_019313) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnn1 (NM_019313) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnn1
Synonyms:	KCa2.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR215407 representing NM\_019313  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGTAGCCGACGCCACAATGGCAGTGTGGGCGGCCCTCTGGCAGTGGCCTGGATTCTGGGCTGGG  
 AACCTGTGGACCCGAGGCAGGCCGCCCGACAGCCACCAAGGCCCGGCCCTGCAGATGATGGCCAA  
 GGGTCAGCCTGTGGGCTGTACCCAGTGGCCCGAGGGCCACTCCAGGCGCAGGAGGAGGAAGAGGAA  
 GAGGAAGACGAGGACAGGCCAGGCTCAGGGAAGCCCCGACCGTCAGTACCGCCTGGGCCACCGTAGGG  
 CCCTCTTCGAGAAGCGTAAACGACTCAGTACTATGCACTCATCTTTGGCATGTTGCGGATTGTCGTCAT  
 GGTGACAGAAACAGAGCTGTCTGGGTGTGTACACCAAGGAGTCTCTGTGCTCATTGCGCCTGAAATGC  
 CTAATCAGCCTCTCCACTGTCATCTGCTTGGCCTTGTACCTCTACCACGCCGAGAGATCCAGCTGT  
 TCCTGGTGGACAATGGTCCGATGACTGGCGCATTGCCATGACGTGGGAGCGAGTGTCCCTGATCTCGT  
 GGAGTTGGCTGTGTGCCATCCACCCAGTGCCTGGCCACTACCGCTTACATGGACGGCGCGGCTGGCC  
 TTCTCCCTGGTGGCGTACGACGCCGAGGCGGATGTGGATGTGTTCTGTCCATCCCATGTTTCTGCGCC  
 TCTATCTGCTGGCTCGGGTCATGCTCCTGCACAGCCGCATCTTACGGACGCATCCAGTCGACGATCGG  
 AGCCCTGAACCGTGTACCTTCAACACACGCTTTGTACCAAGACACTCATGACCATCTGCCCTGGCACC  
 GTGCTGTTGGTCTTACGATCTCCTCCTGGATCGTCGTCATGGACAGTGCAGCTGTGTGAGAGGTACC  
 ATGATAAACAGGAAGTGACCAGCAACTTCTGGGGCCATGTGGCTCATCTCCATTACCTTCTGTCCAT  
 CGGCTACGGGGACATGGTGCCGCACACCTACTGTGGGAAGGGCGTGTGTCTGCTACCGGCATCATGGGA  
 GCAGGCTGCACTGCACTCGTGGTGGCCGTCGTGGCCCGAAGTTGGAACACTACCAAGGCTGAGAAACAGG  
 TGCACAACCTTATGATGGACACACAGCTACCAAGCGGGTTAAAAACGCCGCTGCAAACGTTCTCAGGGA  
 GACATGGCTCATCTACAAACACACACAGGCTAGTGAAGAAGCCAGACCAAAAGCCGGGTTCCGAAACACAG  
 CGTAAGTTCCTTACAGCCATCCATCAGGCGCAGAAGCTCCGGACTGTGAAGATTGAACAAGGAAGGTGA  
 ATGATCAGGCCAACACGCTGGCTGACCTGGCCAAGGCACAGAGCATCGCATATGAGGTGGTGTGCGGAGCT  
 GCAGGCCACGAGGAGGAGTTGGAGGCCGCTGGCTGCCCTGGAGAGCCGCTGGATGTCTAGGCGCC  
 TCCCTGCAGGCCCTACCAAGTCTCATAGCCCAAGCCATATGCCCTCTACCACCACCTGGCCCGGCCCA  
 GTCACCTGACCACAGCCGCCAGAGCCCAAAAGCCACTGGCTGCCACCACGGCATCAGACTGTGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR215407 representing NM\_019313  
 Red=Cloning site Green=Tags(s)

MSSRSHNGSVGRPLGSGPGLGWEPVDPEAGRPRQPTQGPGLQMMAKGQPAGLSPSGPRGHSQAQEEEE  
 EEDEDPRGSGKPPTVSHRLGHRALFEKRKRLSDYALIFGMFIVVMVTELELWGVYTKESLCSFALKC  
 LISLSTVILLGLVILYHAREIQLFLVDNGADDWRIAMTWERSLISLELAVCAIHPVPGHYRFTWTARLA  
 FSLVPSAAEADVLLSIPMFLRLYLARVMLLHSRIFTDASSRSIGALNRVTFNTRFVTKLMTICPGT  
 VLLVFSISSWIVAAWTVRVCERYHDKQEVTSNFLGAMWLISITFLSIGYDMVPHTYCGKGVCLLTGIMG  
 AGCTALVVAVVARKLELTKAEKHVHNFMDTQLTKRVKNAANVLRWLIYKHTRLVKKPDQSRVRKHQ  
 RKFLQAIHQAKLRVTKIEQGVNDQANTLADLAKAQSIAYEVVSELQAQQEELARLALESRLDVLGA  
 SLQALPSLIAQAICPLPPWPGPSHLTAAQSPQSHWLPTTASDCG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

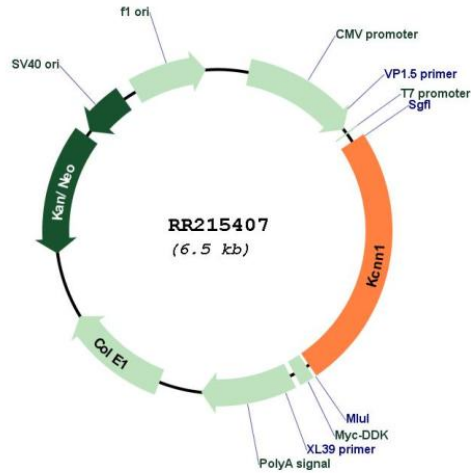
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_019313
<b>ORF Size:</b>	1608 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_019313.1</a> , <a href="#">NP_062186.1</a>
<b>RefSeq Size:</b>	1611 bp
<b>RefSeq ORF:</b>	1611 bp
<b>Locus ID:</b>	54261
<b>UniProt ID:</b>	<a href="#">P70606</a>
<b>Cytogenetics:</b>	16p14
<b>MW:</b>	59.2 kDa
<b>Gene Summary:</b>	voltage independent potassium channel; activated by intracellular calcium [RGD, Feb 2006]