

## Product datasheet for **MC221191**

### **Kcnn3 (NM\_080466) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnn3 (NM_080466) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnn3
Synonyms:	KCa2.3; SK3; SKCA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221191 representing NM\_080466  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACACTTCTGGGCACTTCCATGACTCGGGGTGGGGACCTGGATGAAGACCCCAAGTGTCCCTGTG  
 CATCTTCTGGGGACGAGCAACAGCAGCAGCAGCAACCGCCACCACCGCCAGCGCCACCAGCAGTCCCCCA  
 GCAGCCTCCGGGACCCTTGCTGCAGCCTCAGCCTCCGCGAGCCTCAGCAGCAACAGTCGCAGCAGCAGCAG  
 CAGCAGCAGTCGCAGCAGCAGCAGCAGCAGGCTCCACTGCACCCCTGCCTCAGCTTGCCAACTCCAGA  
 GCCAGCTTGCCATCCTGGTCTGTTGACTCTTCTCCACGGCGTTAGGGCCCCCACTTCAGCCAACTC  
 TACCGCCATCCTCACCCCTTCTCCAGGCAAGGCAGCCAGCTAAATCTCAATGACCACTTGCTTGGCCAC  
 TCTCAAGTTCACAGCCACAAGTGGGCCCGTGGAGGCAGCCGGCACCAGCCAGCCCGCCCTGGTGC  
 ACCGGCGGGACAGCAATCCCTTCACGGAGATAGCTATGAGCTCCTGCAAATACAGCGGTGGGGTCATGAA  
 GCCCTCAGCCGCTCAGCGCTCTCGGAGAACTTATCGAGGCTGAGCCTGAGGGCCAAACCCCTCCAG  
 CTCTTCAGTCCCAGCAACCCCCAGAGATTATCATCTCCTCCAGGGAGGATAACCATGCCACCAGACTC  
 TGCTCCATCACCCCAACGCTACCCACAACCACCAGCATGCCGGCACCACGGCCGGCAGCACCACCTTCCC  
 CAAAGCCAAACAGCGGAAAAACAAAACATTGGCTATAAGCTGGGACACAGGAGGGCCCTGTTTGAAAAG  
 AGAAAGCGACTGAGTGACTATGCTCTGATTTTTGGGATGTTTGAATGTTGTTATGGTGATAGAGACCG  
 AACTGTCTTGGGTTTGTACTCAAAGGATTCCATGTTTTCGTTGGCCCTGAAATGCCTTATCAGTTTATC  
 CACCGTCATCTGCTTGGTTTGATCATCGCCTATCACACAAGGGAAGTACAGCTCTTTGTGATCGACAAT  
 GTGCAGATGACTGGCGGATAGCCATGACCTACGAGCGTATCCTCTACATCAGCCTGGAGATGCTGGTGT  
 GCGCCATCCACCCATCCCTGGAGAGTACAAGTCTTCTGAGCTGCACGCCTGGCCTTCTCTATAACCC  
 ATCTCGGGCAGAGGCTGACGTGGACATTATTCTGTCCATCCCCATGTTTCTGCGCCTGTACCTGATCGCC  
 CGGGTCATGCTGCTCCATAGCAAACCTTCACTGATGCCTCCTCCGAAGCATCGGGGCCCTCAACAAGA  
 TCAACTTCAACACCCGATTGCTCATGAAGACGCTCATGACCATCTGCCCTGGCACGGTGCTGCTGGTGT  
 CAGCATCTCTGTGGATCATCGCTGCCTGGACTGTGCGAGTCTGTGAAAGGTACCATGATCAGCAGGAT  
 GTAAGTAGTAACCTTCTGGGTGCCATGTGGCTCATCTCCATCACGTTCTTTCCATTGGCTATGGGGACA  
 TGGTGCCCCACACATACTGTGGAAAGGTGTCTGTCTTCTCACCGCATCATGGGTGCAGGCTGCACTGC  
 CCTTGTGGTAGCTGTGGTTGCCGAAAGCTCGAACTACCAAAGCAGAGAAGCATGTGCACAACCTCATG  
 ATGGACACTCAGCTCACCAAACGGATCAAGAATGCCGCCGCAATGTCCTCCGGGAAACGTGGCTAATCT  
 ATAAACATACAAAGCTGCTAAAGAAGATTGACCATGCCAAAGTCAGGAAACACCAGGGAAGTTCCTCCA  
 AGCTATCCACCAACTGCGGGGTGTCAAGATGGAACAAAGGAAGCTGAGTGACCAAGCCAACCCCTGGTG  
 GACCTTCCAAAGATGCAGAACGTGATGACTTAATCACGGAGCTCAATGACCGGAGTGAAGATCTAG  
 AAAAGCAGATTGGCAGCCTGGAGTCCAAGCTGGAGCACCTCACAGCCAGTTTCAATTCCTGCCCTGCT  
 CATCGCAGATACCCTGCGCCAGCAGCAGCAGCAGCTGCTCACTGCCTTCGTGGAGGCCGGGGCATCAGT  
 GTGGCCGTGGGAACTAGCCACGCCCTCCCTCTGACAGCCCTATCGGGATCAGCTCCACCTCTTCCCAA  
 CCCCATACACAAGTTCAGCAGTTGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_080466

**Insert Size:** 2199 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<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>	<u><a href="#">NM_080466.2</a></u> , <u><a href="#">NP_536714.2</a></u>
<b>RefSeq Size:</b>	7617 bp
<b>RefSeq ORF:</b>	2199 bp
<b>Locus ID:</b>	140493
<b>UniProt ID:</b>	<u><a href="#">P58391</a></u>
<b>Cytogenetics:</b>	3 F1
<b>Gene Summary:</b>	Forms a voltage-independent potassium channel activated by intracellular calcium. Activation is followed by membrane hyperpolarization. Thought to regulate neuronal excitability by contributing to the slow component of synaptic afterhyperpolarization. The channel is blocked by apamin (By similarity).[UniProtKB/Swiss-Prot Function]