

## Product datasheet for MC214611

### Kcnk18 (NM\_207261) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnk18 (NM_207261) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnk18
Synonyms:	Gm781; Tresk; Tresk-2; Trik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NM_207261.3 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCTGAGGAGCCACCTGAGGCCAGGAGATGCTGTCCCGAGGCCCTGGGAAGGCCAGGGGATGCT  
GCCCCGAAGCCCTGGGCAAGCTTCTGCCCGCCTCTGCTTCCCTTGTGCTGCTGGTACCTATGCGCTGGT  
GGGTGCTGCTCTTCTCCGCTGTCGAGGGCCGCCCTGACCCAGAAGCAGAGGAGAACCCTGAGTTGAAG  
AAGTTCCTGGACGATCTGTGCAACATCCTGAAATGTAACCTGACAGTGGTTGAAGGTAGCAGGAAGA  
TGTGTGAGCATCTGCAACACCTCAAGCCCCAGTGGCTCAAGGCGCCCCAGGACTGGTCTTCTGAGCGC  
TCTCTTCTTCTGCTGCACAGTGTTCAGCACAGTGGTTATGGCCACATGTACCCTGTACCAGGCTCGGT  
AAGTTCCTGTGCATGCTGTATGCGCTCTTTGGAATCCCTCTAATGTTCTGCTCCTCACAGACATAGGAG  
ATATCCTGGCCACCATCTTATCCAGGGCTTACAGTTCGGTTCAGGCTCTCCTTTCCTCCCCACGATAT  
CTTCAAATGGCGCTCCCTCCCGCTCTGCCGGAAGCAGCCTGACAGCAAACCGGTGGAGGAAGCCATCCCT  
CAGATTGTCATTGATGCTGGTGTGGATGAACTCCTAAACCCGAGCCAGCAAGGACCCCTCCTCCGA  
GCTGCAATGTGGAGCTGTTTGAGAGATTAGTTGCCCGTGAAGAAAAGAACAAGCTACAACCACCCACGCG  
TCCCGTGGAGAGGAGCAACTCCTGTCCCAGCTGGTGTGGGGCGACTGTCTGTCTATTCTCAGCAAT  
CTGGATGAAGTGGCCAGCAGGTGGAGAGGCTGGACATCCCTCTCCCGTATCGCCCTGGTCTGCTTTG  
CATACATCTCCTGCGCGCTGCTATCCTCCCTTCTGGGAGACCGAGCTAGGCTTCGAGGATGCTTTCTA  
CTTCTGCTTTGTGACACTGACCACCATCGGTTTGGGGACATCGTGTGTCACCCCTATTCTTCTCCTC  
TTCTTCTCCATCTACATCATCGTGGCATGGAGATCCTGTTTATTGCCTTCAAGCTGATGCAGAACC  
TCCTGCACACCTACAAAACCTCATGCTGTTTGTGGCCAAAGGAAGTTTCGCTACCTTGGTAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATA  
TCCTGGATTACAAGGATGACGACGATAAGGTTAA



[View online »](#)

<b>Chromatograms:</b>	<a href="https://cdn.origene.com/chromatograms/ja1451_a05.zip">https://cdn.origene.com/chromatograms/ja1451_a05.zip</a>
<b>Restriction Sites:</b>	Sgfl-RsrII
<b>ACCN:</b>	NM_207261
<b>Insert Size:</b>	1185 bp
<b>OTI Disclaimer:</b>	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>	<a href="#">NM_207261.3</a> , <a href="#">NP_997144.1</a>
<b>RefSeq Size:</b>	3032 bp
<b>RefSeq ORF:</b>	1185 bp
<b>Locus ID:</b>	332396
<b>UniProt ID:</b>	<a href="#">Q6VV64</a>
<b>Cytogenetics:</b>	19 D3
<b>Gene Summary:</b>	Outward rectifying potassium channel. Produces rapidly activating outward rectifier K(+) currents. May function as background potassium channel that sets the resting membrane potential. Channel activity is directly activated by calcium signal. Activated by the G(q)-protein coupled receptor pathway. The calcium signal robustly activates the channel via calcineurin, whereas the anchoring of 14-3-3/YWHAH interferes with the return of the current to the resting state after activation. Inhibited also by arachidonic acid and other naturally occurring unsaturated free fatty acids. Channel activity is also enhanced by volatile anesthetics, such as isoflurane. Appears to be the primary target of hydroxy-alpha-sanshool, an ingredient of Schezuan pepper. May be involved in the somatosensory function with special respect to pain sensation.[UniProtKB/Swiss-Prot Function]