

Product datasheet for **RG212920**

KCNK18 (NM_181840) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK18 (NM_181840) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNK18
Synonyms:	K2p18.1; MGR13; TRESK; TRESK-2; TRESK2; TRIK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212920 representing NM_181840 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGAGGTCTCGGGCACCCCCAGGCCAGGAGATGCTGCCAGAGGCCCTGGGAAAGCTCTTCCCTGGCC
TCTGCTTCTCTGCTTTCTGGTACCTACGCCCTGGTGGGTGCTGTGGTCTTCTCTGCCATTGAGGACGG
CCAGGCTCTGGTGGCAGCAGATGATGGAGAGTTTGAAGAAGTCTTGGAGGAGCTCTGCAGAATCTTGAAC
TGCAGTAAACAGTGGTGAAGACAGAAAACAGGATCTCCAGGGGCATCTGCAGAAGGTGAAGCCTCAGT
GGTTTAAACAGGACCACACTGGTCCTTCTGAGCTCGCTTTTTCTGCTGCACGGTGTTCAGCACCGT
GGGCTATGGCTACATCTACCCCGTCACCCAGGCTTGGCAAGTACTTGTGCATGCTCTATGCTCTTTGGT
ATCCCCCTGATGTTCTCGTTCTCACGGACACAGGCGACATCCTGGCAACCATCTTATCTACATCTTATA
ATCGGTTCCGAAAATTCCTTTCTTTACCCGCCCTCTCTCCAAGTGGTGCCCAAATCTCTCTTCAA
GAAAAACCGGACCCCAAGCCCGCAGATGAAGCTGTCCCTCAGATCATCATCAGTGTGAAGAGCTTCCA
GGCCCCAACTTGGCACATGTCTTACGCCCAAGCTGCAGCATGGAGCTGTTTGAGAGATCTCATGCGC
TAGAGAAACAGAACACTGCAACTGCCCCACAAGCCATGGAGAGGAGTAACTCGTGTCCCGAAGTGGT
GTTGGGAAGACTCTCATACTCCATCATCAGCAACCTGGATGAAGTTGGACAGCAGGTGGAGAGGTTGGAC
ATCCCCCTCCCCATCATTGCCCTATTGTTTTGCTTACATTTCTGTGCAGCTGCCATCCTCCCTTCT
GGGAGACACAGTTGGATTCGAGAATGCCTTCTATTTCTGCTTTGTACACTCACCACCATTGGGTTTGG
GGATACTGTTTTAGAACCCCTAACTTCTTCTGTTCTTCTCCATTTATATCATCGTTGGAAATGGAGATT
GTGTTTATTGCTTTCAAGTTGGTGCAAAACAGGCTGATTGACATATACAAAAATGTTATGCTATTCTTTG
CAAAAGGGAAGTTTTACCACCTTGTTAAAAAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212920 representing NM_181840
 Red=Cloning site Green=Tags(s)

```
MEVSGHPQARRCCPEALGKLPGLCFLCFLVITYALVGAVVFS AIEDGQVLVAADDGEFEKFLLEELCRILN
CSETVVEDRKQDLQGHLLQVKPQWFNRTTHWSFLSSLFFCCTVFSTVGYGIYPVTRLGKYL CMLYALFG
IPLMFLVLTDTGDILATILSTSYNRFKFPFFTRPLL SKWCPSL FKKKPPDKPADEAVPQIIISAEELP
GPKLGTCP SRPSCMELFERSHALEKQNTLQLPPQAMERSNSCELVLRGRLSYSIISNLDEVGQQVERLD
IPLPIIALIVFAYISCAAAILPFWETQLDFENAFYFCFVLT TTTIGFGD TVLEHPNFLLFFSIYIIVGMEI
VFIAFKLVQNRLIDIYKNVMLFFAKGKFYHLVKK
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181840

ORF Size: 1152 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:

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_181840.1](#), [NP_862823.1](#)

RefSeq Size: 1155 bp

RefSeq ORF: 1155 bp

Locus ID: 338567

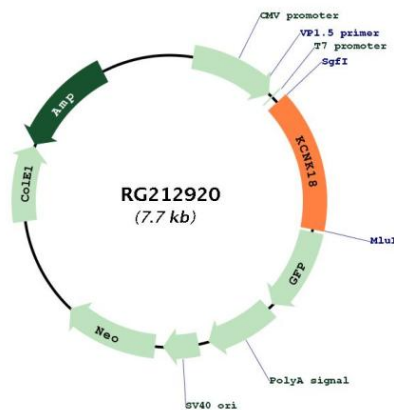
UniProt ID: [Q7Z418](#)

Cytogenetics: 10q25.3

Protein Families: Ion Channels: Potassium, Transmembrane

Gene Summary: Potassium channels play a role in many cellular processes including maintenance of the action potential, muscle contraction, hormone secretion, osmotic regulation, and ion flow. This gene encodes a member of the superfamily of potassium channel proteins containing two pore-forming P domains and the encoded protein functions as an outward rectifying potassium channel. A mutation in this gene has been found to be associated with migraine with aura.[provided by RefSeq, Jan 2011]

Product images:



Circular map for RG212920