

## Product datasheet for **RG215155**

### **KCNK3 (NM\_002246) Human Tagged ORF Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | KCNK3 (NM_002246) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | KCNK3   |
| Synonyms:                 | K2p3.1; OAT1; PPH4; TASK; TASK-1; TASK1; TBAK1                              |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG215155 representing NM_002246<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCGGCAGAACGTGCGCACGCTGGCGCTCATCGTGTGCACCTTCACCTACCTGCTGGTGGCGCCG  
CGGTCTTCGACGCGCTGGAGTCGGAGCCCCGAGCTGATCGAGCGGCAGCGGCTGGAGCTGCGGCAGCAGGA  
GCTGCGGGCGCGCTACAACCTCAGCCAGGGCGGCTACGAGGAGCTGGAGCGCGTCTGCTGCGCCTCAAG  
CCGCACAAGGCCGCGTGCAGTGGCGCTTCGCCGGCTCCTTCTACTTCGCCATCACCGTCATCACCACCA  
TCGGCTACGGGCACGCGCACCCAGCACGGATGGCGGCAAGGTGTCTGCATGTTCTACGCGCTGCTGGG  
CATCCCGCTCACGCTCGTCATGTTCCAGAGCCTGGGCGAGCGCATCAACACCTTGGTGAGGTACCTGCTG  
CACCGCGCAAGAAGGGGCTGGGCATGCGGCGCGCCGACGTGTCCATGGCCAACATGGTGCTCATCGGCT  
TCTTCTCGTGCATCAGCACGCTGTGCATCGGCGCCGCGCCTTCTCCACTACGAGCACTGGACCTTCTT  
CCAGGCCCTACTACTGCTTATCACCCTCACCACCATCGGCTTCGGCGACTACGTGGCGCTGCAGAA  
GACCAGGCCCTGCAGACGCAGCCGAGTACGTGGCCTTACGTTCTCGTCTACATCCTTACGGGCTCACGG  
TCATCGGCGCCTTCTCAACCTCGTGGTGTGCTGCGCTTTCATGACCATGAACGCCGAGGACGAGAAGCGCA  
CGCCGAGCACCGCGCTGCTCACGCGCAACGGGCGGCGGCGGCGGCGGAGGGGTGGCAGCGCGCAC  
ACTACGGACACCGCCTCATCCACGGCGGCAGCGGCGGCGGCTTCCGCAACGCTACGCGGAGGTGC  
TGCACTTCCAGTCCATGTGCTCGTGCCTGTGTTACAAGAGCCGCGAGAAGCTGCAGTACTCCATCCCAT  
GATCATCCCGCGGACCTCTCCACGTCCGACACGTGCGTGGAGCAGAGCCACTCGTCCGCGGAGGGGGC  
GGCCGCTACAGCGACACGCCCTCGGACGCTGCCTGTGCAGCGGGGCGCCACGCTCCGCCATCAGCTCGG  
TGTCACGGGTCTGCACAGCCTGTCCACCTTCCGCGGCTCATGAAGCGCAGGAGCTCCGTG

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG215155 representing NM\_002246  
 Red=Cloning site Green=Tags(s)

MKRQNVRTLALIVCTFTYLLVGAAVFDALESEPELIERQRLERLQQLRARYNLSQGGYEELERVVLRK  
 PHKAGVQWRFAFSFYFAITVITTIYGYGHAAPSTDGGKVF CMFYALLGIPLTLVMFQSLGERINTLVRYLL  
 HRAKKGLGMRRADVSMANMVLIGFFSCISTLCIGAAAFSHYEHWTFFQAYYYCFITLTTIGFGDYVALQK  
 DQALQTQPQYVAFSFVYILTGLTVIGAFNLVLRFMNNAEDEKRDAEHRALLTRNGQAGGGGGGSAH  
 TTDTASSTAAAGGGGFRNVYAEVLHFQSMCSCLWYKSREKLQYSIPMIIPRDLSTSDTCVEQSHSSPGGG  
 GRYSDTPSRRCLCSGAPRSAISSVSTGLHSLSTFRGLMKRRSSV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002246

**ORF Size:** 1182 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\\_002246.3](#)

**RefSeq Size:** 2590 bp

**RefSeq ORF:** 1185 bp

**Locus ID:** 3777

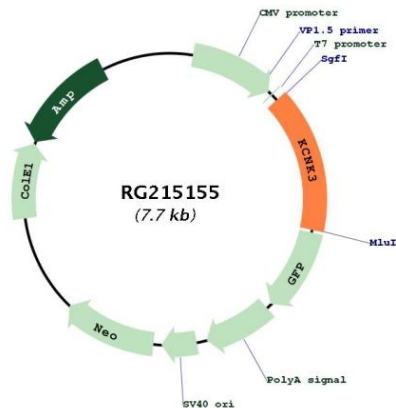
**UniProt ID:** [O14649](#)

**Cytogenetics:** 2p23.3

**Protein Families:** Druggable Genome, Ion Channels: Potassium, Transmembrane

**Gene Summary:** This gene encodes a member of the superfamily of potassium channel proteins that contain two pore-forming P domains. The encoded protein is an outwardly rectifying channel that is sensitive to changes in extracellular pH and is inhibited by extracellular acidification. Also referred to as an acid-sensitive potassium channel, it is activated by the anesthetics halothane and isoflurane. Although three transcripts are detected in northern blots, there is currently no sequence available to confirm transcript variants for this gene. [provided by RefSeq, Aug 2008]

### Product images:



Circular map for RG215155