

Product datasheet for **MG224294**

Kcnk3 (NM_010608) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnk3 (NM_010608) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kcnk3
Synonyms: cTBAK-1; TASK; Task-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224294 representing NM_010608
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCGGCAGAAATGTGCGCACGTTGGCTCTCATCGTGTGCACCTTCACCTACCTGCTGGTGGGCGCCG
 CGGTGTTTCGACGCACTGGAGTCGGAGCCGGAGATGATCGAGCGGCAGCGGCTGGAGCTGCGGCAGCTGGA
 GCTGCGGGCGCGCTACAACCTCAGCGAGGGCGGCTACGAGGAGCTGGAGCGCGTCTGCTGCGCCTCAAG
 CCGCACAAGGCCGCGTGCAGTGGCGCTCGCCGGCTCCTTCTACTTCGCCATCACCGTCATCACCACCA
 TCGGCTATGGTTCATGCGGCGCCAGCACGACGGAGGCAAGGTGTCTGCATGTTCTACGCGCTGCTGGG
 CATCCCGCTCACACTAGTCATGTTCCAGAGCCTGGGTGAACGCATCAACACCTTCGTGAGGTACCTGCTG
 CACCGTGCCAAGAGGGGGCTGGGCATGCGGCACGCCGAGGTGCCATGGCCAACATGGTGCTCATCGGTT
 TCGTGTGCTGCATCAGCACGCTGTGCATCGGCGCAGCTGCCTTCTCCTACTACGAGCGCTGGACTTCTT
 CCAGGCCATTACTACTGCTTATCACCCTCACCACCATCGGCTTCGGCGACTATGTGGCGCTGCAGAAG
 GACCAGGCGTGCAGACGCAGCCGAGTATGTGGCCTTTCAGTTCGTGTACATCCTCACGGGCTCACGG
 TCATCGGCGCCTCCTCAACCTCGTGGTGTGCGATTTCATGACCATGAACGCCGAGGACGAGAAGCGTGA
 TCGGAGCACCGCGCCCTGCTCACGCACAACGGCCAGGCTGTCCGCTGGGTGGCTGAGCTGCCTGAGC
 GGTAGCCTGGGCGACGGCGTGCCTCCCCGCGACCCAGTACATGCGCTGCGGCGGGAGGCGTGGGCG
 TGGCGTCCGTTGGCAGCGCTTCCGCAACGCTATGCCGAGGTGCTGCACTTCCAGTCCATGTGCTCGTG
 CCTCTGGTACAAGAGCCGCGAGAAGCTGCAGTACTCCATCCCCATGATCATCCCCGCGGACCTCTCCACG
 TCCGACACCTGCGTGGAGCACAGCCACTCGTCGCCGGAGGCGGCGCCGCTACAGCGACACGCCCTCAC
 ACCCCTGCCTGTGCAGCGGGACGCAGCGCTCGGCCATCAGCTCGGTGTCCACGGGCTGCACAGCCTGGC
 TGCCTCCGCGGCTCATGAAGCGCAGGAGCTCGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224294 representing NM_010608
 Red=Cloning site Green=Tags(s)

MKRQNVRTLALIVCTFTYLLVGAAVFDALESEPEMIERQRLERLQLELRARYNLSEGGYEELERVVLRK
 PHKAGVQWRFAGSFYFAITVITTIYGYGHAAPSTDGGKVF CMFYALLGIPLTLVMFQSLGERINTFVRYLL
 HRAKRGLGMRHAEVSMANMVLIGFVSCISTLCIGAAAFSYYERWTFQAYYYCFITLTTIGFGDYVALQK
 DQALQTQPQYVAFSFVYILTGLTVIGAFNLVLRFMNTMNAEDEKRDAEHRALLTHNGQAVLGGLSCLS
 GSLGDGVRPRDPVTCAAAAGGVGVGVGSGFRNVYAEVLHFQSMCCLWYKSREKLQYSIPMIIPRDLST
 SDTCVEHSHSSPGGGGRYS DTPSHPLCSGTQRSAISSVSTGLHSLAAFRGLMKRRSSV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010608

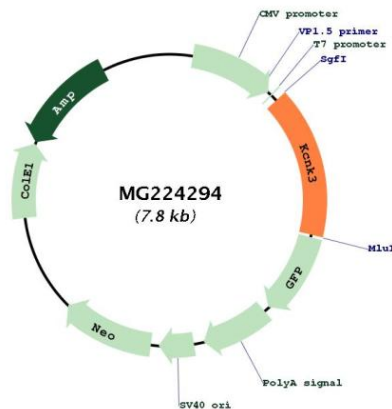
ORF Size: 1227 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_010608.2, NP_034738.1</u>
RefSeq Size:	3810 bp
RefSeq ORF:	1230 bp
Locus ID:	16527
UniProt ID:	<u>O35111</u>
Cytogenetics:	5 16.68 cM
Gene Summary:	pH-dependent, voltage-insensitive, background potassium channel protein. Rectification direction results from potassium ion concentration on either side of the membrane. Acts as an outward rectifier when external potassium concentration is low. When external potassium concentration is high, current is inward.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG224294