

Product datasheet for MR224294

Kcnk3 (NM_010608) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnk3 (NM_010608) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnk3
Synonyms:	cTBAK-1; TASK; Task-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224294 representing NM_010608 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCGGCAGAATGTGCGCACGTTGGCTCTCATCGTGTGCACCTTCACCTACCTGCTGGTGGGCGCCG
CGGTGTTTCGACGCACTGGAGTCGGAGCCGGAGATGATCGAGCGGCAGCGGCTGGAGCTGCGGCAGCTGGA
GCTGCGGGCGCGCTACAACCTCAGCGAGGGCGGCTACGAGGAGCTGGAGCGCGTCTGCTGCGCCTCAAG
CCGCACAAGCCGGCGTGCAGTGGCGCTTCGCCGGCTCCTTCTACTTCGCCATCACCGTCATCACCACCA
TCGGCTATGGTCATGCGGCGCCAGCACGGACGGAGGCAAGGTGTCTGCATGTTCTACGGCTGCTGGG
CATCCCGCTCACACTAGTCATGTTCCAGAGCCTGGGTGAACGCATCAACACCTTCGTGAGGTACCTGCTG
CACCGTGCCAAGAGGGGGCTGGGCATGCGGCACGCCGAGGTGCCATGGCCAACATGGTGCTCATCGGTT
TCGTGTGCTGCATCAGCACGCTGTGCATCGGCGCAGCTGCCTTCTCCTACTACGAGCGCTGGACTTCTT
CCAGGCCATTACTACTGCTTATCACCCTCACCACCATCGGCTTCGGCGACTATGTGGCGCTGCAGAAG
GACCAGGCGCTGCAGACGCAGCCGAGTATGTGGCCTTCAGTTCGTGTACATCCTCACGGGCTCACGG
TCATCGGCGCCTTCTCAACCTCGTGGTGTGCGATTTCATGACCATGAACGCCGAGGACGAGAAGCGTGA
TGCGGAGCACCGGCCCTGCTCACGCACAACGGCCAGGCTGTCCGCTGGGTGGCTGAGCTGCCTGAGC
GGTAGCCTGGGCGACGGCGTGCCTCCCCGCGACCCAGTCACATGCGCTGCGGCGGGAGGCGTGGGCG
TGGCGTCGTTGGCAGCGGCTTCCGCAACGCTATGCCGAGGTGCTGCACTTCCAGTCCATGTGCTCGTG
CCTCTGGTACAAGAGCCGCGAGAAGCTGCAGTACTCCATCCCCATGATCATCCCCGCGGACCTCTCCACG
TCCGACACCTGCGTGGAGCACAGCCACTCGTCGCCGGAGGCGGCGCCGCTACAGCGACACGCCCTCAC
ACCCCTGCCTGTGCAGCGGGACGCAGCGCTCGGCCATCAGCTCGGTGCCACGGGCTGCACAGCCTGGC
TGCTTCCGCGGCTCATGAAGCGCAGGAGCTCGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224294 representing NM_010608
Red=Cloning site Green=Tags(s)

MKRQNVRTLALIVCTFTYLLVGAAVFDALASEPEMIERQLELRQLELRARYNLSEGGYEELERVVLRK
 PHKAGVQWRFAGSFYFAITVITTIYGYHAAPSTDGGKVF CMFYALLGIPLTLVMFQSLGERINTFVRYLL
 HRAKRGLGMRHAEVSMANMVLIGFVSCISTLCIGAAAFSYYERWTFQAYYYCFITLTTIGFGDYVALQK
 DQALQTQPQYVAFSFVYILTGLTVIGAFNLVLRFMTMNAEDEKRDAEHRALLTHNGQAVLGLSCLS
 GSLGDGVRPRDPVTCAAAAGGVGVGVGSGFRNVYAEVLHFQSMCCLWYKSREKLQYSIPMIIPRDLST
 SDTCVEHSHSSPGGGGRYS DTPSHPCLCSGTQRSAISSVSTGLHSLAAFRGLMKRRSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



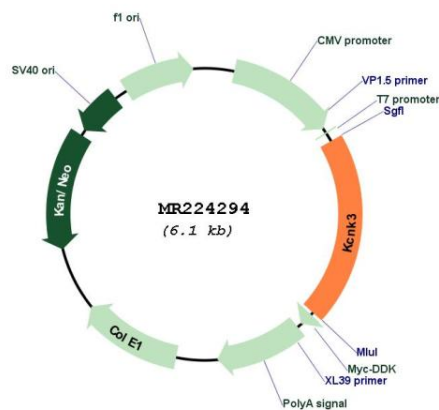
ACCN: NM_010608

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</u> , <u>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
MW:	45.5 kDa
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 MR224294