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Product datasheet for RG202421

KCNK6 (NM_004823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK6 (NM_004823) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNK6
Synonyms:	K2p6.1; KCNK8; TOSS; TWIK-2; TWIK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202421 representing NM_004823 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCGGAGGGGCGCGCTTCTGGCGGGCGCCTTGGCCGCGTACGCCGCGTACCTGGTGCTGGGCGCGCTGT TGGTGGCGCGGCTGGAGGGGCCGCACGAAGCCAGGCTCCGAGCCGAGCTGGAGACGCTGCGGGCGCAGCT GCTTCAGCGCAGCCCGTGTGTGGCTGCCCCCGCCCTGGACGCCTTCGTGGAGCGAGTGCTGGCGGCCGGA CGGCTGGGGCGGGTCGTGCTTGCTAACGCTTCGGGGTCCGCCAACGCCTCGGACCCCGCCTGGGACTTCG CCTCTGCTCTCTTCTTCGCCAGCACGCTGATCACCACCGTGGGCTATGGGTACACAACGCCACTGACTGA TGCGGGCAAGGCCTTCTCCATCGCCTTTGCGCTCCTGGGCGTGCCGACCACCATGCTGCTGCTGACCGCC TCAGCCCAGCGCCTGTCACTGCTGCTGACTCACGTGCCCCTGTCTTGGCTGAGCATGCGTTGGGGCTGGG ACCCCCGGCGGGCGGCCTGCTGGCACTTGGTGGCCCTGTTGGGGGTCGTAGTGACCGTCTGCTTTCTGGT GCCGGCTGTGATCTTTGCCCACCTCGAGGAGGCCTGGAGCTTCTTGGATGCCTTCTACTTCTGCTTTATC TCTCTGTCCACCATCGGCCTGGGCGACTACGTGCCCGGGGAGGCCCCTGGCCAGCCCTACCGGGCCCTCT ACAAGGTGCTGGTCACAGTCTACCTCTTCCTGGGCCTGGTGGCCATGGTGCTGGTGCTGCAGACCTTCCG CCACGTGTCCGACCTCCACGGCCTCACGGAGCTCATCCTGCTGCCCCCTCCGTGCCCTGCCAGTTTCAAT GCGGATGAGGACGATCGGGTGGACATCCTGGGCCCCCAGCCGGAGTCGCACCAGCAACTCTCTGCCAGCT CCCACACCGACTACGCTTCCATCCCCAGG ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

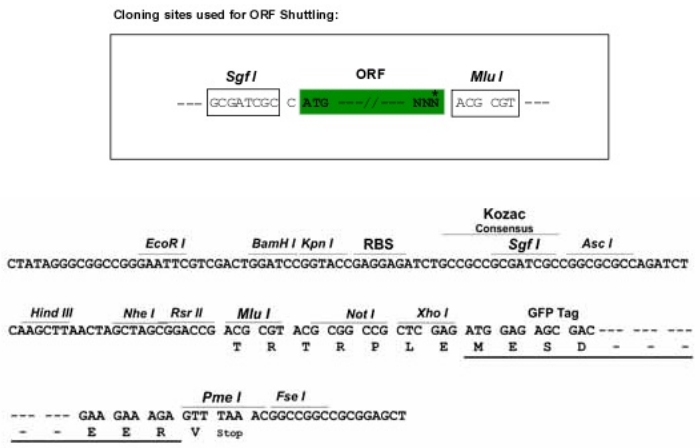
>RG202421 representing NM_004823
Red=Cloning site Green=Tags(s)

MRRGALLAGALAAYAAYLVLGALLVARLEGPHEARLRAELETLRAQLLQRSPCVAAPALDAFVERVLAAG
RLGRVVLANASGSANASDPAWDFASALFFASTLITTVGYGYTTPLTDAGKAFSIAFALLGVPTTMLLLTA
SAQRLSLLLTHVPLSWLSMRWGWDPRRAACWHLVALLGVVVTVCFLVPAVIFAHLEEAWSFLDAFYFCFI
SLSTIGLGDYVPGEAPGQPYRALYKVLVTVYLFLGLVAMVLVLQTFRHVSDLHGLTELILLPPPCPASFN
ADEDDRVDILGPQPESHQQLSASSHTDYASIPR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004823

ORF Size: 939 bp

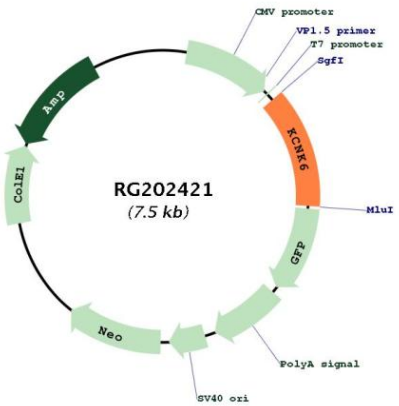
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_004823.3
RefSeq Size:	2671 bp
RefSeq ORF:	942 bp
Locus ID:	9424
UniProt ID:	Q9Y257
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	This gene encodes one of the members of the superfamily of potassium channel proteins containing two pore-forming P domains. This channel protein, considered an open rectifier, is widely expressed. It is stimulated by arachidonic acid, and inhibited by internal acidification and volatile anaesthetics. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202421