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Product datasheet for RG217804

KCNK7 (NM_005714) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK7 (NM_005714) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNK7
Synonyms:	K2p7.1; TWIK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG217804 representing NM_005714
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGGTCTAAGGCCCTGGTCCCGATACGGGCTCCTGGTTGTGGCCCACTTGCTGGCCCTGGGGCTTG
GGGCTGTGGTGTTCCAGGCCCTGGAGGGGCCTCCTGCATGCAGGCTTCAGGCTGAGCTCAGGGCAGAGCT
GGCAGCCTTCCAGGCAGAGCATAGGGCCTGCCTGCCACCCGGAGCTCTGGAAGAGCTGCTGGGCACTGCC
CTGGCCACCCAGGCCCATGGGGTCTCCACCCTGGGCAACAGCTCAGAGGGCAGGACCTGGGACCTTCCCT
CAGCCCTGCTCTTCGCTGCCAGCATCCTCACCACCACAGGTTATGGCCACATGGCCCCACTATCGCCAGG
CGGAAAGGCCTTCTGCATGGTCTATGCAGCCCTGGGGCTGCCAGCCTCCTTAGCTCTCGTGGCCACCCTG
CGCCATTGCCTGCTGCCTGTGCTCAGCCGCCCACGTGCCTGGGTAGCGGTCCACTGGCAGCTGTCACCGG
CCAGGGCTGCGCTGCTGCAGGCAGTTGCACTGGGACTGCTGGTGGCCAGCAGCTTTGTGCTGCTGCCAGC
GCTGGTGCTGTGGGGCCTTCAGGGCGACTGCAGCCTGCTGGGGGCCGTCTACTTCTGCTTCAGCTCGCTC
AGCACCATTGGCCTGGAGGACTTGCTGCCCGGCCGCGGCCGCAGCCTGCACCCCGTGATTTACCACCTGG
GCCAGCTCGCACTTCTTGGTAAGTCCAGCCACCTAACAGCGTGTGGGGGAAGGGGGAAGAGGAGCCTGGA
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

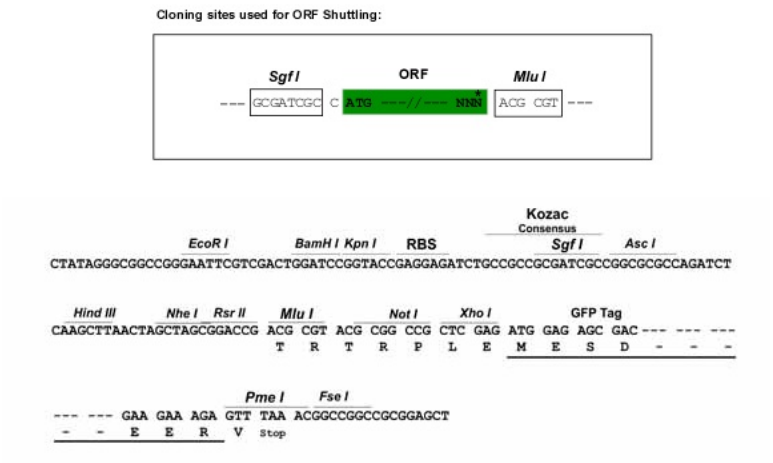
>RG217804 representing NM_005714
Red=Cloning site Green=Tags(s)

MGGLRPWSRYGLLVVAHLLALGLGAVVFQALEGPPACRLQAELRAELAAFQAEHRACLPPGALEELLGTA
LATQAHGVSTLGNSSEGRTWDLPSALLFAASILTTTGYGHMAPLSPGGKAFCMVYAALGLPASLALVATL
RHCLLPVLSRPRAWVAVHWQLSPARAALLQAVALGLLVASSFVLLPALVLWGLQGDCSLLGAVYFCFSSL
STIGLEDLLPGRGRSLHPVIYHLGQLALLGKSSHLTACGGRGKRSLD

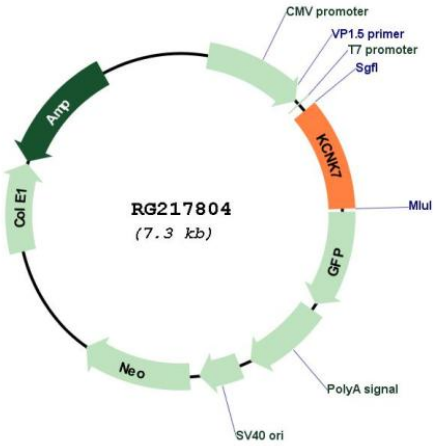
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_005714

ORF Size: 771 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_005714.2
RefSeq Size:	1577 bp
RefSeq ORF:	774 bp
Locus ID:	10089
UniProt ID:	Q9Y2U2
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	This gene encodes a member of the superfamily of potassium channel proteins containing two pore-forming P domains. The product of this gene has not been shown to be a functional channel; however, it may require other non-pore-forming proteins for activity. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]