

Product datasheet for **RC215648**

KCNK7 (NM_033455) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK7 (NM_033455) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNK7
Synonyms:	K2p7.1; TWIK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215648 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGC**

ATGGGGGTCTAAGGCCCTGGTCCCGATACGGGCTCCTGGTTGTGGCCCACTTGCTGGCCCTGGGGCTTGGGCTGTGGTGTCCAGGCCCTGGAGGGCCTCCTGCATGCAGGCTTCAGGCTGAGCTCAGGGCAGAGCTGGCAGCCTCCAGGCAGAGCATAGGGCCTGCCTGCCACCCGGAGCTCTGGAAGAGCTGTGGCACTGCCCTGGCCACCCAGGCCATGGGGTCTCCACCCTGGGCAACAGCTCAGAGGGCAGGACCTGGGACCTCCCTCAGCCCTGCTCTCGCTGCCAGCATCCTACCACCACAGTTATGGCCACATGGCCCACTATCGCCAGCGGAAAGGCCTTCTGCATGGTCTATGCAGCCCTGGGGCTGCCAGCCTCCTTAGCTCTCGTGGCCACCCTGCGCATTGCTGCTGCCTGTGCTCAGCCGCCACGTGCCTGGGTAGCGGTCCACTGGCAGCTGTCACCGGCCAGCGCTGCGCTGCTGCAGGCAGTTGCACTGGGACTGCTGGTGGCCAGCAGCTTGTGCTGCTGCCAGCGTGGTGTGGGGCCTTCAGGGCAGCTGCAGCCTGCTGGGGCCGCTACTTCTGCTTCAGCTCGCTCAGCACCATTGGCCTGGAGGACTTGTGCCCGCCGCGCCGAGCCTGCACCCGTGATTTACCACCTGGCCAGCTCGCACTTCTTGGTGGAGGGACCTCACTCCAGGGCACGGCGTGGGAGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215648 protein sequence
Red=Cloning site Green=Tags(s)

MGGLRPWSRYGLLVVAHLLALGLGAVVFQALEGPPACRLQAE LRAELAAFQAEHRACLPPGALEELLGTA
 LATQAHGVSTLGNSSSEGRWDLPSALLFAASILTTTGYGHMAPLSPGGKAF CMVYAALGLPASLALVATL
 RHCLLPVLSRPRAWVAVHWQLSPASAA LLQAVALLVASSFVLLPALVLWGLQGDSCLLGAVYFCFSSL
 STIGLEDLLPGRGRSLHPVIYHLGQLALLGGGTS LQGTAWEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6559_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033455

ORF Size: 756 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_033455.1](#), [NP_258416.1](#)

RefSeq Size: 1485 bp

RefSeq ORF: 759 bp

Locus ID: 10089

UniProt ID: [Q9Y2U2](#)

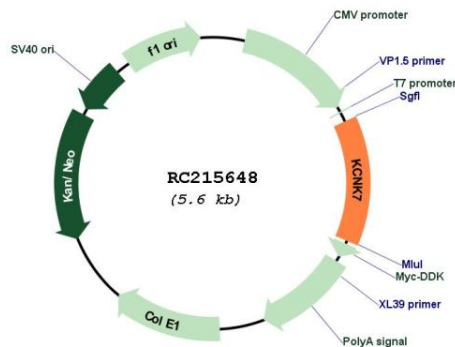
Cytogenetics: 11q13.1

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

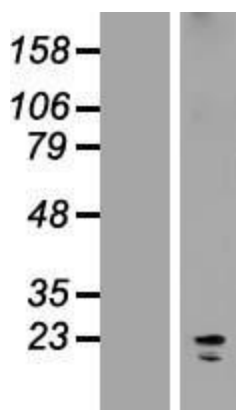
MW: 26.1 kDa

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]

Product images:



Circular map for RC215648



Western blot validation of overexpression lysate (Cat# [LY409517]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215648 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).