

Product datasheet for **RG205321**

KCNK1 (NM_002245) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNK1 (NM_002245) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCNK1
Synonyms: DPK; HOHO; K2P1; K2p1.1; KCNO1; TWIK-1; TWIK1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205321 representing NM_002245
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCAGTCCCTGGCCGGCAGCTCGTGCGTGCCTGGTGGAGCGGCACCGCTCGGCCTGGTGCCTCG
GCTTCCTGGTGTGGGCTACTTGCTCTACCTGGTCTTCGGCGCAGTGGTCTTCTCCTCGGTGGAGCTGCC
CTATGAGGACCTGCTGCGCCAGGAGCTGCGCAAGCTGAAGCGACGCTTCTGGAGGAGCAGGAGTGCCTG
TCTGAGCAGCAGCTGGAGCAGTTCCTGGCCGGGTGCTGGAGGCCAGCAACTACGGCGTGTGGTGTCTCA
GCAACGCCTCGGCAACTGGAAGTGGACTTCACCTCCGCGCTCTTCTCGCCAGCACCGTGTCTCCAC
CACAGTTATGGCCACACCGTGCCCTTGTGAGTGGAGGTAAGGCCTTCTGCATCATCTACTCCGTCATT
GGCATTCCCTTACCCTCCTGTTCTGACGGCTGTGGTCCAGCGCATCACCGTGCAGTCAACCCGAGGC
CGGTCTCTACTTCCACATCCGCTGGGGCTTCTCCAAGCAGGTGGTGGCCATCGTCCATGCCGTGTCTCT
TGGGTTTGTCACTGTGTCTGCTTCTTCTCATCCCGCCGCTGTCTTCTCAGTCTGGAGGATGACTGG
AACTTCTGGAATCCTTTATTTTTGTTTTATTTCCCTGAGCACCATTGGCCTGGGGATTATGTGCCTG
GGGAAGGCTACAATCAAAAATTCAGAGAGCTCTATAAGATTGGGATCACGTGTTACCTGCTACTTGGCCT
TATTGCCATGTTGGTAGTTCTGGAAACCTTCTGTGAACTCCATGAGCTGAAAAAATTCAGAAAAATGTTT
TATGTGAAGAAGGACAAGGACGAGGATCAGGTGCACATCATAGAGCATGACCAACTGTCTCTCCTCGA
TCACAGACCAGGACGCTGGCATGAAAGAGGACCAGAAGCAAAATGAGCCTTTTGTGGCCACCCAGTCATC
TGCTGCGTGGATGGCCCTGCAAACCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG205321 representing NM_002245
Red=Cloning site Green=Tags(s)

MLQSLAGSSCVRLVERHRSAWCFGLVLGYLLYLVFGAVVFSSVELPYEDLLRQELRKLKRRFLEEHECL
 SEQQLEQFLGRVLEASNYGVSLSNASGNWNWDFTSALFFASTVLSTTGYGHTVPLSDGGKAFCCIYSVI
 GIPFTLLFLTAVVQRITVHVTRRPVLYFHIRWGF SKQVVAIVHAVLLGFVTVSCFFFIPAAVFSVLEDDW
 NFLESFYFCFISLSTIGLDYVPGEGYNQKFRELYKIGITCYLLGLIAMLVVLETFCELHELKFRKMF
 YVKKDKDEDQVHIEHDQLSFSITDQAAGMKEDQKQNEPFVATQSSACVDGPANH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002245

ORF Size: 1008 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_002245.2](#), [NP_002236.1](#)

RefSeq Size: 1901 bp

RefSeq ORF: 1011 bp

Locus ID: 3775

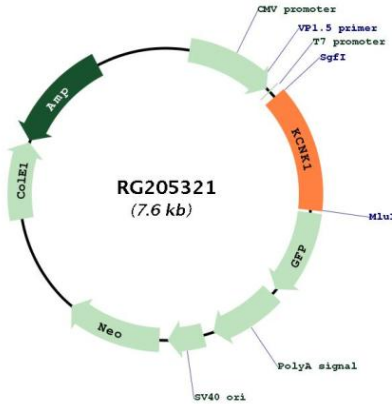
UniProt ID: [O00180](#)

Cytogenetics: 1q42.2

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. 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205321