

Product datasheet for **RG209207**

KCNK5 (NM_003740) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNK5 (NM_003740) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNK5
Synonyms:	K2p5.1; KCNK5b; TASK-2; TASK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209207 representing NM_003740
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGACCGGGCCCTCTGCTCACCTCGGCCATCATCTTCTACCTGGCCATCGGGCGGCGATCTTCG
 AAGTGCTGGAGGAGCCACACTGGAAGGAGGCCAAGAAAACTACTACACACAGAAGCTGCATCTGCTCAA
 GGATTTCCCGTGCTGGGTGAGGAGGCCCTGGACAAGATCCTAGAGGTGGTATCTGATGCTGCAGGACAG
 GGTGTGGCCATCACAGGGAACCAGACCTTCAACAAGTGAAGTGGCCCAATGCAATGATTTTTGCAGCGA
 CCGTCATTACCACATTGGATATGGCAATGTGGCTCCCAAGACCCCGCCGGTGCCTCTTCTGTGTTTT
 CTATGGTCTCTTCGGGGTCCGCTCTGCCTGACGTGGATCAGTGCCTGGCAAGTTCTTCGGGGGACGT
 GCCAAGAGACTAGGGCAGTTCCTTACCAAGAGAGGTGTGAGTCTGCGGAAGGCGCAGATCACGTGCACAG
 TCATCTTCATCGTGTGGGGCTCCTAGTCCACCTGGTATCCACCTTCGTATTCATGGTGACTGAGGG
 GTGGAACATACGAGGGCCTCTACTACTCTTACCATCTCCACCATCGGCTTCGGTGACTTTGTG
 GCCGGTGTGAACCCAGCGCAACTACCACGCCCTGTACCCTACTTCGTGGAGCTCTGGATCTACTTGG
 GGCTGGCCTGGCTGTCCCTTTTTGTCAACTGGAAGGTGAGCATGTTTGTGGAAGTCCACAAGCCATTAA
 GAAGCGCGCGCGGACGGAAGGAGTCTTTGAGAGCTCCCCACACTCCCGGAAGGCCCTGCAGGTGAAG
 GGGAGCACAGCCTCAAGGACGTCAACATCTTCAGCTTTCTTTCCAAGAAGGAAGAGACCTACAACGACC
 TCATCAAGCAGATCGGGAAGAAGGCCATGAAGACAAGCGGGGGTGGGAGACGGGCGCGCCAGGGCT
 GGGGCTCAAGGCGGTGGGCTCCAGCACTGCCCTTCCCTGGTGGCCCTGGTAGTCTACTCCAAGAAC
 CGGGTCCACCTTGAAGAGGTGTACAGACTGAGGAGCAAAGGCCACGTATCAAGTCCCCAGATG
 AGGAGCTGTGGCACGGGCCCCGAAGACAGTCCCCTGCCCGAGGTGTTTCATGAACAGCTGGACCG
 CATCAGCGAGGAATGCGAGCCATGGGACGCCAGGACTACCACCCACTCATCTTCCAGGACGCCAGCATC
 ACCTTCGTGAACACGGAGGCTGGCCTCTCAGACGAGGAGACTCCAAGTCTCGTAGAGGACAACCTGG
 CAGGGGAGGAGAGCCCCAGCAGGGGGTGAAGCCAAGGCGCCCTGAACATGGGCGAGTCCCCTCCTC
 CTCCGAGTCCACCTTACCAGCACTGAGTCTGAGCTCTGTGCCTTACGAACAGCTGATGAATGAGTAC
 AACAAAGGCTAACAGCCCCAAGGGCACA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209207 representing NM_003740
 Red=Cloning site Green=Tags(s)

MVDRGPLLTSALIFFLAIGAAIFEVLEEPHWKEAKKNYYTQKLHLLKEFPCLGQEGLDKILEVVSDAAGQ
 GVAITGNQTFNNWNWPNAMIFAATVITTIIGYGNVAPKTPAGRLFCVFYGLFGVPLCLTWISALGKFFGGR
 AKRLGQFLTKRGVSLRKAQITCTVIFIVWGLVHLVIPPVFMVTEGWNYIEGLYYSFITISTIGFGDFV
 AGVNPSANYHALYRYFVELWIYGLAWLSLFFVNWKVSFVVEVHKAIAKRRRRRRESFESSPHSRKALQVK
 GSTASKDVNIFSLSKKEETYNDLIKQIGKKAMKTSGGGETGPGPGLGPQGGGLPALPPSLVPLVYYSKN
 RVPTLEEVSQTLRSKGHVSRSPEEAVARAPEDSSPAPEVFMNQLDRISEECEPWDAQDYHPLIFQDASI
 TFWNTEAGLSDEETSKSSLEDNLAGEESPQQGAEAKAPLNMGEFPSSSESTFTSTESELSVPYEQLMNEY
 NKANSPKGT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003740

ORF Size: 1497 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_003740.4](#)

RefSeq Size: 3800 bp

RefSeq ORF: 1500 bp

Locus ID: 8645

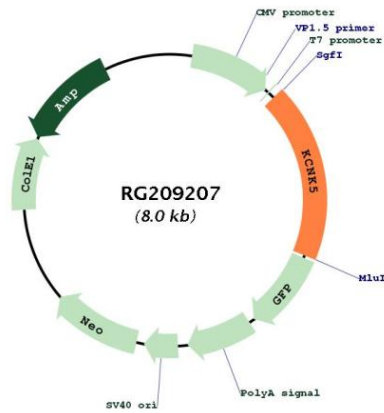
UniProt ID: [O95279](#)

Cytogenetics: 6p21.2

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 message for this gene is mainly expressed in the cortical distal tubules and collecting ducts of the kidney. The protein is highly sensitive to external pH and this, in combination with its expression pattern, suggests it may play an important role in renal potassium transport. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209207