

Product datasheet for **RC225985**

KCNC1 (NM_001112741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNC1 (NM_001112741) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNC1
Synonyms:	EPM7; KV3.1; KV4; NGK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225985 representing NM_001112741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCAAGGGGACGAGAGCGAGCGCATCGTGATCAACGTGGGCGGCACGCGCCACCAGACGTACCCT
 CGACCCTGCGCACGCTGCCCGGCACGCGCTCGCCTGGCTGGCGGAGCCGACGCCACAGCCACTTCGA
 CTATGACCCGCGTGTGACGAGTCTTCTTCGACCGCCACCCCGCGTCTTCGCGCACATCCTGAACTAC
 TACCGCACGGCAAGCTGCACTGCCAGCCGACGTGTGCGGGCCGCTCTACGAGGAGGAGCTGGCCTTCT
 GGGGACATGACGAGACCGACGTGGAGCCCTGCTGCTGGATGACGTACCGCCAGCACCGCGACGCCGAGGA
 GGCTCTGGACAGCTTCGGCGCGCTCCTCTGGACAACAGCGCCGACGACGCGGACGCCGACGCCCTGGC
 GACTCGGGCGACGGCGAGGACGAGCTGGAGATGACCAAGCGCCTGGCGCTCAGTGACTCCCCGGATGGCC
 GGCTGGCGGCTTTGGCGCCGCTGGCAGCCGCGCATCTGGCGCTCTTCGAGGACCCGACTCGTCCCG
 CTACGCGCGGTATGTGGCCTTCGCTTCCCTCTTTCATCTGGTCTCCATCACCACCTTCTGCCTGGAG
 ACCCAGAGCGCTTCAACCCCATCGTGAACAAGACGGAGATCGAGAACGTTTCGCAATGGCAGCAAGTGC
 GCTACTACCGGGAGGCCGAGACGGAGCCCTTCTTACCTACATCGAGGGCGTCTGTGTGGTCTGGTTCAC
 CTTTCGAGTTCTCATGCGTGTGATCTTCTGCCCAACAAGGTAGAGTTCATCAAGAACTCGCTCAACATC
 ATTGACTTTGTGGCCATCCTGCCCTTCTACCTGGAGGTGGGGCTGAGCGGCTGTCTCCAAGGCAGCCA
 AGGACGTGCTGGGCTTCTGCGCGTCTGCGCTTCGTGCGCATCTTGGCATCTTAAAGTGACCCGCCA
 CTTTGTGGGCTGCGGCTCCTGGCCACACGCTCCGAGCCAGCACCAACGAGTTCCTGCTGCTCATCATC
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 ATGACCCAGCCAGTGAACACGACGCACTTTAAGAACAATCCCATCGGCTTCTGGTGGGCGTGTGTCAC
 CATGACGACCCCTGGGCTATGGAGACATGTACCCGACAGCGTGGTCCGGCATGCTGGTGGGGCTCTGTGT
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 GCCCAGGAAGAAATTTAGAAATTAACAGAGCAGATTCCAACTGAATGGGGAGGTGGCGAAGGCCGCGC
 TGGCGAACGAAGACTGCCCCACATAGACCAGGCCCTCACTCCCGATGAGGGCTGCCCTTACGCGCTC
 GGGCACCCGCGAGAGATACGACCCTGCTTCTCTTATCAACCGGGAGTACGCGTCCACCTGGTGGAG
 GGATGAGAAAGGATCTTTCAAAGAAAGCCCTGTCATTGCTAAGTATATGCCGACAGAGGCTGTGAGAG
 TGACT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225985 representing NM_001112741
 Red=Cloning site Green=Tags(s)

MGQDESERIVINVGTRHQTYRSTLRLLPGTRLAWLAEPDAHSHFDYDPRADFFFDHRHPGVFAHILNY
 YRTGKHLCPADVCGPLYEEELAFWIDETDVEPCWMTYRQHRDAEEALDSFGGAPLNSADDADADGPG
 DSGDGEDELEMTKRLALSDSPDGRPGFWRWQPRIWALFEDPYSSRYARYVAFASLFFILVSITTFCLE
 THERFNPVINKTEIENVRNGTQVRYREAETEAFITYIEGVCVWFTEFLMRVIFCPNKVEFIKNSLNI
 IDFVAILPFYLEVGLSGLSSKAAKDVLFRLRVRFVRIILRIFKLTRHFVGLRVLGHTLRASNEFLLLII
 FLALGVLIFATMIYYAERIGAQPNDPSASEHTHFKNIPIGFWAVVTMTTLGYGDMYPQTWSGMLVGALC
 ALAGVLTIAAMPVPVIVNFMGYSLAMAKQKLPKPKKHHIPRPPQLGSPNYCKSVVNSPHSTQSDTCPL
 AQEEILEINRADSKLNGEVAKAALANEDCPHIDQALTPDEGLPFRSGTRERYGPCFLSTGEYACPPGG
 GMRKDLCKESPVIAKYMPTAVRVT

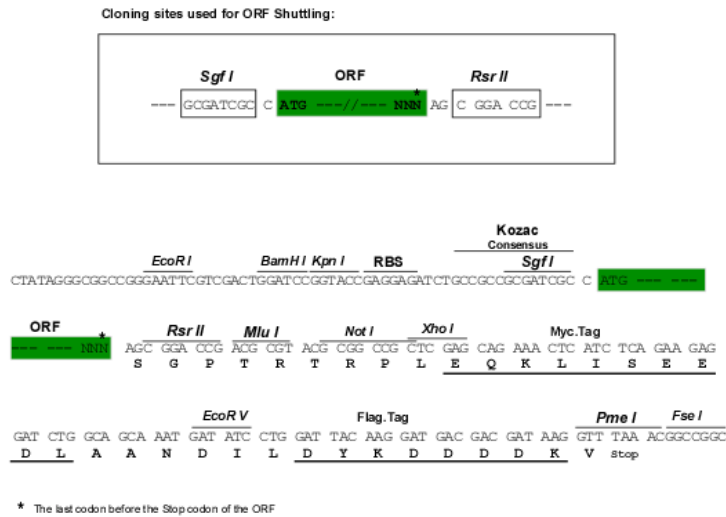
SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8034_d04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001112741

ORF Size: 1755 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.

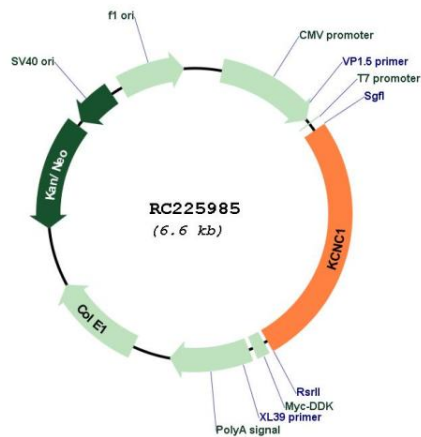
RefSeq: [NM_001112741.2](#)

RefSeq ORF: 1758 bp

Locus ID: 3746

UniProt ID: [P48547](#)

Cytogenetics:	11p15.1
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	65.7 kDa
Gene Summary:	This gene encodes a member of a family of integral membrane proteins that mediate the voltage-dependent potassium ion permeability of excitable membranes. Alternative splicing is thought to result in two transcript variants encoding isoforms that differ at their C-termini. These isoforms have had conflicting names in the literature: the longer isoform has been called both "b" and "alpha", while the shorter isoform has been called both "a" and "beta" (PMIDs 1432046, 12091563). [provided by RefSeq, Oct 2014]

Product images:


Circular map for RC225985