

Product datasheet for **RC238533**

KCNS3 (NM_001282428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNS3 (NM_001282428) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNS3
Synonyms:	KV9.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238533 representing NM_001282428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGTTTGGTGAAGTTTTCCATCGCCCTGGACAAGACGAGGAAGTTGTCAACCTGAATGTGGGGGCT
 TTAAGCAGTATGTTGACCAAGCACCTCTGCGGTTTCTCACACCAGACTGGGGAAGCTGCTTACTTG
 CCATTCTGAAGAGGCCATTCTGGAGCTGTGTGATGATTACAGTGTGGCCGATAAGGAATACTACTTTGAT
 CGGAATCCCTCCTTGTTCAGATATGTTTTGAATTTTTATTACACGGGAAGCTGCATGTCATGGAGGAGC
 TGTGCGTATTCTCATTCTGCCAGGAGATCGAGTACTGGGGCATCAACGAGCTCTTCATTGATTCTTGCTG
 CAGCAATCGTACCAGGAACGCAAGGAGGAAAACCACGAGAAGGACTGGGACCAGAAAAGCCATGATGTG
 AGTACCGACTCCTCGTTGAAGAGTCGTCTCTGTTTGAGAAAGAGCTGGAGAAGTTGACACACTGCGAT
 TTGGTCAGCTCCGAAGAAAATCTGGATTAGAATGGAGAATCCAGCGTACTGCCTGTCCGCTAAGCTTAT
 CGCTATCTCCTCCTTGAGCGTGGTGTGGCCTCCATCGTGCCATGTGCGTTACACAGCATGTCGGAGTTC
 CAGAATGAGGATGGAGAAGTGGATGATCCGGTGTGGAAGGAGTGGAGATCGCGTGCATTGCCTGGTTCA
 CCGGGGAGCTTGCCGTCCGGCTGGCTGCCGCTCCTTGTCAAAAAGAAATTCTGAAAAACCTCTGAACAT
 CATTGACTTTGTCTCTATTATCCCTTCTATGCCACGTTGGCTGTAGACACCAAGGAGGAAGAGAGTGAG
 GATATTGAGAACATGGGCAAGGTGGTCCAGATCTACGGCTTATGAGGATTTTCCGAATTCTAAAGCTTG
 CCCGGCACTCGGTAGGACTTCGGTCTCTAGGTGCCACACTGAGACACAGTACCATGAAGTTGGGCTTCT
 GCTTCTCTCTCTGTGGCATTTCATTTCTCTGTGCTTATCTACTCCGTGGAGAAAGATGACCAC
 ACATCCAGCCTCACCAGCATCCCATCTGCTGGTGGTGGCCACCATCAGCATGACAAGTGTGGGCTATG
 GAGACACCCACCGGTCACCTTGGCGGAAAGCTCATCGCCAGCACATGCATCATCTGTGGCATCTTGGT
 GGTGGCCCTTCCCATCACCATCATCTTCAACAAGTTTTCCAAATACTACCAGAAGCAAAAAGGACATTGAT
 GTGGACAGTGCAGTGAAGGATGCACCAGAGAAGTGCATGAGCTACCTTACTTTAACATTAGGGATATAT
 ATGCACAGCGGATGCACGCCTTCAATACCAGTCTCTCTCTGTAGGCATTGTGGTGAAGCATCTGACTC
 CACAGATGCTTCAAGCATTGAAGACAATGAGGACATTTGTAACACCACCTCCTTGGAGAATTGCACAGCA
 AAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238533 representing NM_001282428
 Red=Cloning site Green=Tags(s)

MVFGFFHRRPGQDEELVNLNVGGFKQYVDQSTLLRFPHTRLGKLLTCHSEEAILEL CDDYSVADKEYYFD
 RNP SLFRYVLFNYTGLHVMEEELCVF SFCQIEIYWGINELFIDSCSNRYQERKEENHEKDWDQKSHDV
 STDSSFEESLFEKELEKFDLRFGLRKKIWIRMPAYCLSAKLIAISSLVVLASIVAMCVHSMSEF
 QNEDGEVDDPVLEGVEIACIAWFTGELAVRLAAAPCQKFKWKNPLNIIDFVSIIPFYATLAVDTKEESE
 DIENMGKVVQILRLMRIFRILKLARHSVGLRSLGATLRHSYHEVGLLLFLSVGISIFSFLIYSVEKDDH
 TSSLTSIPICWVWATISM TTVGYGDTHPVTLGKLIASSTICGILVVALPITIIIFNFKSKYYQKQKIDID
 VDQCEDAPEKCHELPYFNIRDIYAQRMHAFITSLSSVGIVVSDPDSTDASSIEDNEDICNTT SLENCTA
 K

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6306_d07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001282428

ORF Size: 1473 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_001282428.1](#), [NP_001269357.1](#)

RefSeq Size: 2415 bp

RefSeq ORF: 1476 bp

Locus ID: 3790

UniProt ID: [Q9BQ31](#)

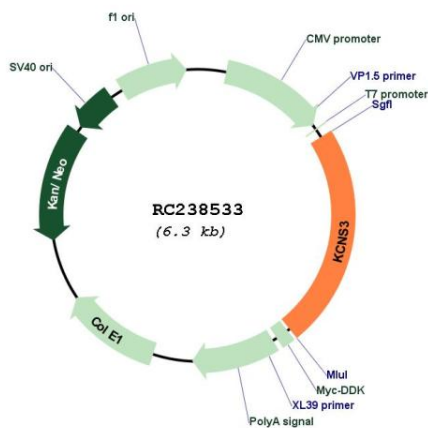
Cytogenetics: 2p24.2

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

MW: 56 kDa

Gene Summary: Voltage-gated potassium channels form the largest and most diversified class of ion channels and are present in both excitable and nonexcitable cells. Their main functions are associated with the regulation of the resting membrane potential and the control of the shape and frequency of action potentials. The alpha subunits are of 2 types: those that are functional by themselves and those that are electrically silent but capable of modulating the activity of specific functional alpha subunits. The protein encoded by this gene is not functional by itself but can form heteromultimers with member 1 and with member 2 (and possibly other members) of the Shab-related subfamily of potassium voltage-gated channel proteins. This gene belongs to the S subfamily of the potassium channel family. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC238533