

## Product datasheet for **RC206654**

### **KCNS2 (NM\_020697) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNS2 (NM_020697) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNS2
Synonyms:	KV9.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC206654 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCGCCAGAGCCTGTGGACGTGTGGAGGCTAACGTGAGGACGGGGAGATCCGCATCAATGTGG  
 GCGGCTTCAAGAGGAGGCTGCGCTCGCACACGCTGCTGCGCTTCCCCGAGACGCGCTGGGCCGCTTGCT  
 GCTCTGCCACTCGCGGAGGCCATTCTGGAGCTCTGCGATGACTACGACGACGTCCAGCGGGAGTTCTAC  
 TTCGACCGCAACCCTGAGCTCTTCCCCTACGTGCTGCATTTCTATCACACCGGAAGCTTACGTCATGG  
 CTGAGCTATGTGCTTCTCCTTACGCCAGGAGATCGAGTACTGGGGCATCAACGAGTTTCTCATTGACTC  
 CTGCTGCAGTACAGCTACCATGGCCGCAAAGTAGAGCCCAGCAGGAGAAGTGGGACGAGCAGAGTGAC  
 CAGGAGAGCACCAGCTTCTCCTCGATGAGATCCTTGCCTTCTACAACGACGCTCCAAGTTCGATGGGC  
 AGCCCTCGGCAACTCCGCAGGACGTGTGGTGGCGCTGGACAACCCCGGCTACTCAGTGTGAGCAG  
 GGTCTTACAGCATCTGTCCATCCTGGTGGTGGTGGGTCATCATCACCATGTGCCTCAATAGCCTGCC  
 GATTTCCAAATCCCTGACAGCCAGGGCAACCCTGGCGAGGACCCTAGGTTGAAAATCGTGGAGCACTTTG  
 GCATTGCCTGGTTCACATTTGAGCTGGTGGCCAGGTTTGTGTGGCCCTGACTTCTCAAGTTCTTCAA  
 GAATGCCCTAAACCTTATTGACCTCATGTCCATCGTCCCCTTTACATCACTCTGGTGGTGAACCTGGT  
 GTGGAGAGCACACTACTTTAGCCAACCTGGGCAGGGTGGCCAGGTCTGAGGCTGATGCGGATCTTCC  
 GCATCTTAAAGCTGGCCAGGCACTCCACTGGCCTCCGCTCCCTGGGGGCCACTTTGAAATACAGTACAA  
 AGAAGTAGGGTCTCTTGTCTACCTCCTCGTGGGATTTCCATCTTCTCGTGGTGGCCTACACCATT  
 GAAAAGGAGGAGAACGAGGGCTGGCCACCATCCCTGCCTGCTGGTGGTGGGCTACCGTCAGTATGACCA  
 CAGTGGGGTACGGGGATGTGGTCCAGGACACGGCAGGAAAGCTGACTGCCTCTGCCTGCATCTTGGC  
 AGGCATCCTCGTGGTGGTCTGCCATCACCTTGATCTTCAATAAGTTCTCCACTTTTACCGGCGCCAA  
 AAGCAACTTGAGAGTGCCATGCGCAGCTGTGACTTTGGAGATGGAATGAAGGAGGTCCCTTCGGTCAATT  
 TAAGGGACTATTATGCCATAAAGTTAAATCCCTTATGGCAAGCCTGACGAAATGAGCAGGAGCTCACC  
 AAGTGAATCAGTTTAAATGATTCCTACGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC206654 protein sequence  
 Red=Cloning site Green=Tags(s)

MTGQSLWDVSEANVEDGEIRINVGGFKRRLRSHTLLRFPETRLGRLLLCHSREAILELCDDYDDVQREFY  
 FDRNPELFPYVLHFYHTGKLHVMAELCVFSFSQIEIYWGINEFFIDSCCSYSHGRKVEPEQEKWDEQSD  
 QESTTSSFDEILAFYNDASKFDGQPLGNFRRQLWLALDNPYSVLSRVFSILSILVVMGSIITMCLNSLP  
 DFQIPDSQGNPGEPRFEIVEHFGIAWTFELVARFAVAPDFLKFKNALNIDLMSIVPFYITLVVNLV  
 VESTPTLANLGRVAQVLRMRIFRILKLARHSTGLRSLGATLKYSYKEVGLLLL YL SVGISIFS VVAYTI  
 EKEENEGLATIPACWWWATVSMTTVGYGDVVPGTAGKLTASACILAGILVVVLPITLIFNKFSHFYRRQ  
 KQLESAMRSCDFGDGMKEVPSVNLRDYYAHKVKSLMASLTNMSRSPSELSLNDLSL

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6788\\_c06.zip](https://cdn.origene.com/chromatograms/mk6788_c06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_020697

**ORF Size:** 1431 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\\_020697.4](#)
**RefSeq Size:** 3219 bp

**RefSeq ORF:** 1434 bp

**Locus ID:** 3788

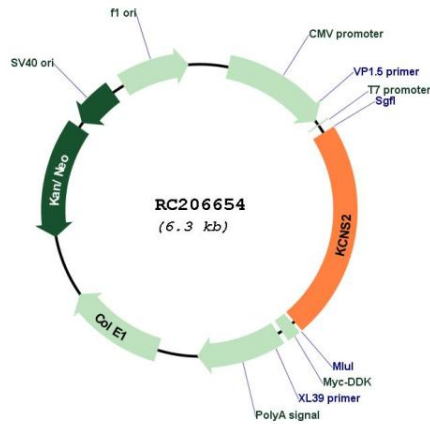
**UniProt ID:** [Q9ULS6](#)
**Cytogenetics:** 8q22.2

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

**MW:** 54.2 kDa

**Gene Summary:** Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1 and KCNB2; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1 and KCNB2. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC206654