

## Product datasheet for **MR218800**

### **Kcns1 (NM\_008435) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcns1 (NM_008435) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcns1
Synonyms:	Kv9.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218800 representing NM\_008435  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGT**GAGCGAGTTTCCGGTCCAGGCTCTCGGGTCCCCTGGCGCCTAGAGACGAGGCGCTGCGCGTGA**  
**ACGTGGGCGGAGTGCGGGGCTGCTGAGCGCGCGCCCTTGC**CGCTTCCCGGGCACGCGCCTGGGCCG  
 CCTACAGCGCGCGGCTCCGAGGAGCAGCGCGCGCCTGTGCGACGACTACGACGACGCGGCGCACGAG  
 TTCTACTTTGATCGGCATCCGGGCTTCTTTCTCGGCCTCTACACTTCTACCGCACCGGGCACCTGCACG  
 TCCTAGACGAGCTGTGCGTCTTCGCTTTCGGCCAGGAGGCTGACTACTGGGGCTGGGCGAGAACGCGCT  
 GGCCACGTGTGCCGCGCGGTATCTGGAGCGCGTGTGGCGCGCCTCGCGCTGGGACGAGGACAGC  
 GACGCGCCGAGCAGCGTGGACCCGTGTCCGACGAGATCTCGGACGTGCAGCGGAGCTGGCGCGCTATG  
 GTGCGGCTCGCTGTGGCCGCTGCGCCGTCGTCTCTGGCTCACCATGGAGAATCCAGGCTACTCGTGCC  
 CAGCAAGCTCTCAGCTCGGTATCCATCGCGTGGTGTGCTCGCCTCCATCGCTGCCATGTGCATCCACAGC  
 CTGCCGGAGTACCAAGCTCGGGAGGCGGGCGCGCGTGGCTGCAGTGGCCGCGGGTGCAGCGCAGAGG  
 AGGTGCGCGACGACCCGGTGTGCGCGCCTGGAGTACTTCTGCATCGCTTGGTTCAGCTTCGAGGTGTC  
 GTCGCGCTGCTGCTGGCTCCCAGCACGCGCAACTTCTTCTGCCACCCGCTCAACCTCATTGACATCGTG  
 TCGGTGCTGCCCTTCTATCTCACACTGCTGGCTGGCGCAGCGCTTGGTGACCAGCGCGGAGCCAGCGGGG  
 AGGAGCTCGGGGACCTGGGCAAGGTAGTGCAAGTGTCCGCCTCATGCGCATCTTCCGCGTGTCAAGCT  
 GGCGGCCACTCCACGGGCTGCGTTGCTGGGCGCCACGCTCAAGCACAGCTACCGTGAAGTGGGCATC  
 TTA**CTGCTACCTGGCCGTGGGTGTGTCAGTGTCTCCGGCGTGGCCTACACAGCCGAAGAAGAAAACG**  
**AGGGCTTTACACAATCCCTGCCTGCTGGTGGTGGGACAGTGCATGACCACAGTGGGCTATGGGGA**  
**TGTGGTGCCAGAGACTGTGGGTGGCAAGCTGGCGCCTCGGGCTGCATCCTCGGGGGCATCCTGGTGGT**  
**GCCCTCCCATCACCATCATCTTCAACAAGTTTTCCCACTTCTACCGGCGCCAGAAGGCACTGGAGCGG**  
**CCGTGCGGAGCAGCGGTGAGCGGAGTTT**GAGACTTGTGAGTACGCTTACCGGGTATCGGATGTGTC  
 TCTGAAACATCCCGGGACACTTCTCAGGAGGGACGCTCTACAGACCTGGAGACCAAGCTCCCGGGAG  
 CCTGCAAATCTCACAGTTAT

**ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>MR218800 representing NM\_008435  
 Red=Cloning site Green=Tags(s)

MVSEFPGPSRVPWRPRDEALRVNVGGVRRLLSARALARFPGTRLGRLQAAASEEQARRLCDDYDAAAHE  
 FYFDRHPGFFLGLLHFYRTGHLHVLDEL CVFAFGQEADYWGLGENALATCCRARYLERRVARPRAWDEDS  
 DAPSSVDPCPDEISDVQRELARYGAARCGRLRRRLWLTMENPGYSLPSKLFSCVSIQVVLASIAAMCIHS  
 LPEYQAREAAAAVAAVAAGRSAEEVRDDPVLRRLEYFCIAWF SFEVSSRLLLAPSTRNFFCHPLNLIDIV  
 SVLPHYLTLLAGAALGDQRGASGEELGDLGKVVQVFRMLRIFRVLKLARHSTGLRSLGATLKHSYREVGI  
 LLLYLAVGVSVFSGVAYTAEENEFGHTIPACWWWGTVSMTTVGYGDVVPETVGGKLAASGCILGGILVV  
 ALPITIIIFNKFSHFYRRQKALEAAVRSSGQREFEDLLSSVDGVSVDVLETSRDTSQEGRSTDLETQAPRE  
 PAKSHSY

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9016\\_e03.zip](https://cdn.origene.com/chromatograms/mm9016_e03.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_008435

**ORF Size:** 1491 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\\_008435.2](#), [NP\\_032461.2](#)

**RefSeq Size:** 2727 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 16538

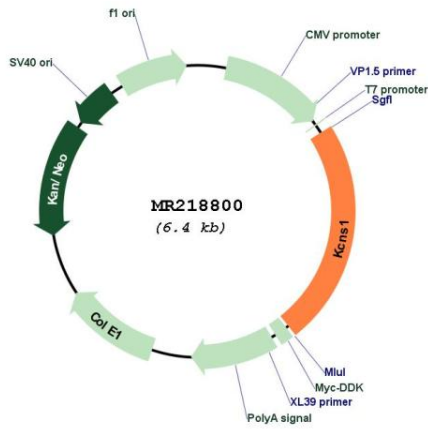
**UniProt ID:** [O35173](#)

**Cytogenetics:** 2 H3

**MW:** 55.4 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 (PubMed:9305895).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218800