

## Product datasheet for **MR217315**

### **Kcns3 (NM\_001168564) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcns3 (NM_001168564) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcns3
Synonyms:	D12Ertd137e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR217315 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGTGTTTGGTGTAGTTTTTCCATCGCCCTGGACAAGATGAGAACTTGTCAACTGAACGTGGGGGCT  
 TTAAGCAGTCTGTGGATCAAAGTAACTCCTGCGGTTCCCTCACACACGACTGGGAAAGCTGCTTACCTG  
 CCACTCTGAGGAGCCATTCTGGAGCTGTGTGATGACTACAGCGTGGCAGATAAAGAGTACTACTTTGAT  
 CGGAACCCCTTCTGTTCCAGATACGTCTTGAACCTTTATTACACAGGGAAGCTGCATGTGATGGAGGAAC  
 TGTGTGCTTCTCCTTCTGCCAGGAGATCGAGTACTGGGGCATCAATGAGCTCTTATTGACTCCTGCTG  
 TAGCAGTCGGTACCAGGAGCGCAAGGAGGAGGCCACGACAAGGACTGGGACCAGAAAAGCAACGATGTG  
 AGCACAGACTCCTCCTTTGAAGAATCGTCTCTGTTTGAGAAAGAGCTGGAGAAGTTGATGAGCTGAGAT  
 TTGGTCAGCTCCGAAAGAAGATCTGGATTCGAATGGAAAATCCAGCTTACTGCCTGTGCGCAAGCTCAT  
 TGCCATCTCCTCCTTGTAGCGTGGTGTGGCTTCCATAGTGCCATGTGTGTGCACAGCATGTCGGAATTC  
 CAGAACGAGGATGGAGAAGTGGATGACCTGTGCTGGAAGGTGTGGAGATTGCCTGCATTGCATGTTTA  
 CTGGTGAGCTAGCCATCAGGCTGGTGTGCTGCCATCACAAAAGAAGTTCTGAAAAACCCCTCTGAACAT  
 CATTGACTTTGTCTATCATTCCCTTCTATGCCACGTTGGCTGTGGACCAAGGAAGAAGAGAGTGTGAG  
 GACATTGAGAATATGGGCAAGGTGGTCCAGATCCTTCGGCTCATGAGGATTTTCCGAATTCTGAAGCTTG  
 CCCGGCACTCTGTAGGGCTTCGGTCTCTGGGGCCACACTGAGGCACAGTTACCATGAGGTGGGGCTACT  
 GCTTCTCTTCTTCTGTGGCATCTCCATCTTCTGTGCTTATCTACTCTGTGGAGAAAGATGAACAC  
 AAGTCCAGTCTCACCAGCATCCCATCTGCTGGTGGGCCACTATCAGTATGACCACAGTGGGCTATG  
 GAGACCCACCCAGTCACCTTAGCTGGGAAAATCATTGCAAGCACATGTATTATCTGTGGAATCTTGT  
 GGTAGCCCTCCCATACCATCATCTTCAACAAGTTTTCCAAGTACTACCAGAAGCAGAAAGACATGGAA  
 GTGGACCAAGTGCAGCGAGGACCCACCAGAGAAGTCCATGAGCTACCGTACTTTAACATTAGGGACGTTT  
 ATGCACAGCAAGTACATGCCTTATCACCAGTCTGTCTTCCATTGGCATCGTGGTGTGATCCTGACTC  
 CACAGATGCTTCGAGCGTTGAAGACAATGAGGATGCTTACAACACTGCATCCCTGGAGAAGTGTACTGGA  
 AAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR217315 protein sequence  
 Red=Cloning site Green=Tags(s)

MVFGFEFFHRPGQDEELVNLNVGGFKQSVQSTLLRFPHTRLGKLLTCHSEEAILEL CDDYSVADKEYYFD  
 RNPFLFRYVLFNYTGLKLVMEELCVFSFCQIEIYWGINELFIDSCSSRYQERKEESHDKDWDQKSNV  
 STDSSFEESLFEKELEKFDLRFGLRKKIWRMENPAYCLSAKLIAISSLVVLASIVAMCVHSMSEF  
 QNEDGEVDDPVLEGVEIACIAWFTGELAIRLVAAPSQKKFWKNPLNIIDFVSIIPFYATLAVDTKEESE  
 DIENMGKVVQILRLMRIFRILKLARHSVGLRSLGATLRHSYHEVGLLLLFLSVGISIFSFLIYSVEKDEH  
 KSSLTSIPICWWTISMTTVGYGDHPVTLGKIIASTCIICGILVVALPITIIIFNFKSKYYQKQKDM  
 VDQCEDPPEKCHELPYFNIRDVYAQQVHAFITSLSSIGIVVSDPDSTDASSVEDNEDAYNTASLENCTG  
 K

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001168564

**ORF Size:** 1476 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\\_001168564.1](#), [NP\\_001162036.1](#)

**RefSeq Size:** 2870 bp

**RefSeq ORF:** 1476 bp

**Locus ID:** 238076

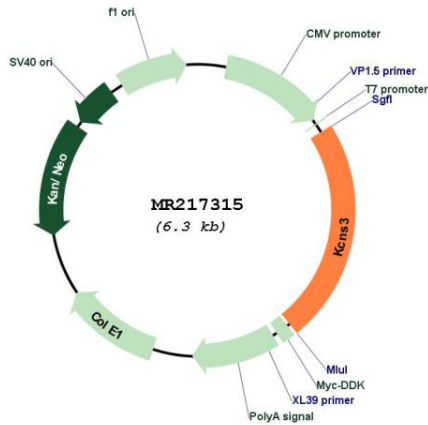
**UniProt ID:** [Q8BQZ8](#)

**Cytogenetics:** 12 5.58 cM

**MW:** 56 kDa

**Gene Summary:** Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1. Heterotetrameric channel activity formed with KCNB1 show increased current amplitude with the threshold for action potential activation shifted towards more negative values in hypoxic-treated pulmonary artery smooth muscle cells.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR217315