

Product datasheet for **MR215743**

Kcns3 (NM_173417) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcns3 (NM_173417) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MR215743 representing NM_173417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGTTTGGTGAAGTTTTCCATCGCCCTGGACAAGATGAGAACTTGTCAACTGAACGTGGGGGCT
 TTAAGCAGTCTGTGGATCAAAGTACACTCTCGGTTCCCTCACACACGACTGGGAAAGCTGCTTACCTG
 CCACTCTGAGGAGGCCATTCTGGAGCTGTGTGATGACTACAGCGTGGCAGATAAAGAGTACTACTTTGAT
 CGGAACCCCTTCTGTTCCAGATACGCTTTGAACCTTTATTACACAGGGAAGCTGCATGTGATGGAGGAAC
 TGTGTGCTTCTCCTTCTGCCAGGAGATCGAGTACTGGGGCATCAATGAGCTCTTATTGACTCCTGCTG
 TAGCAGTCGGTACCAGGAGCGCAAGGAGGAGGCCACGACAAGGACTGGGACCAGAAAAGCAACGATGTG
 AGCACAGACTCCTCCTTTGAAGAATCGTCTCTGTTTGAGAAAGAGCTGGAGAAGTTGATGAGCTGAGAT
 TTGGTCAGCTCCGAAAGAAGATCTGGATTCGAATGGAAAATCCAGCTTACTGCCTGTGCGCAAGCTCAT
 TGCCATCTCCTCCTTGGCGTGGTGTGGCTTCCATAGTGCCATGTGTGTGCACAGCATGTCGGAATTC
 CAGAACGAGGATGGAGAAGTGGATGACCCTGTGCTGGAAGGTGTGGAGATTGCCTGCATTGCATGTTTA
 CTGGTGAGCTAGCCATCAGGCTGGTGTGCTCCATCACAAAAGAAGTTCTGGAAAAACCCCTCTGAACAT
 CATTGACTTTGTTTCTATCATTCCCTTCTATGCCACGTTGGCTGTGGACCAAGGAAGAAGAGAGTGAG
 GACATTGAGAATATGGGCAAGGTGGTCCAGATCCTTCGGCTCATGAGGATTTTCCGAATTTCTGAAGCTTG
 CCCGGCACTCTGTAGGGCTTCGGTCTCTGGGGCCACACTGAGGCACAGTTACCATGAGGTGGGGCTACT
 GCTTCTCTTCTTCTGTGGCATCTCCATCTTCTGTGCTTATCTACTCTGTGGAGAAAGATGAACAC
 AAGTCCAGTCTCACCAGCATCCCATCTGCTGGTGGGCCACTATCAGTATGACCACAGTGGGCTATG
 GAGACCCACCCAGTCACCTTAGCTGGGAAAATCATTGCAAGCACATGTATTATCTGTGGAATCTTAGT
 GGTAGCCCTCCCATACCATCATCTTCAACAAGTTTTCCAAGTACTACCAGAAGCAGAAAGACATGGAA
 GTGGACCAAGTGCAGCGAGGACCCACCAGAGAAGTCCATGAGCTACCGTACTTTAACATTAGGGACGTTT
 ATGCACAGCAAGTACATGCCTTATCACCAGTCTGTCTTCCATTGGCATCGTGGTCAAGTATCCTGACTC
 CACAGATGCTTCGAGCGTTGAAGACAATGAGGATGCTTACAACACTGCATCCCTGGAGAAGTACTGGA
 AAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215743 representing NM_173417
 Red=Cloning site Green=Tags(s)

MVFGFFHRPGQDEELVNLNVGGFKQSVQSTLLRFPHTRLGKLLTCHSEEAILEL CDDYSVADKEYYFD
 RNPFLFRYVLNFYYTGKLVHMEELCVFSFCQIEIYWGINELFIDSCSSRYQERKEESHDKDWDQKSNV
 STDSSFEESSLFEKELEKFDLRFGLRKKIWRMENPAYCLSAKLIAISSLVVLASIVAMCVHSMSEF
 QNEDGEVDDPVLEGVEIACIAWFTGELAIRLVAAPSQKKFWKNPLNIIDFVSIIPFYATLAVDTKEESE
 DIENMGKVVQILRLMRIFRILKLARHSVGLRSLGATLRHSYHEVGLLLFLSVGISIFSFLIYSVEKDEH
 KSSLTSIPICWVWATISM TTVGYGDTHPVTLGKI IASTCIICGILVVALPITIIIFNFKSKYYQKQKDM
 VDQCEDPPEKCHELPYFNIRDVYAQQVHAFITSLSSIGIVVSDPDSTDASSVEDNEDAYNTASLENCTG
 K

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9028_c08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_173417

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_173417.3](#), [NP_775593.1](#)

RefSeq Size: 2933 bp

RefSeq ORF: 1476 bp

Locus ID: 238076

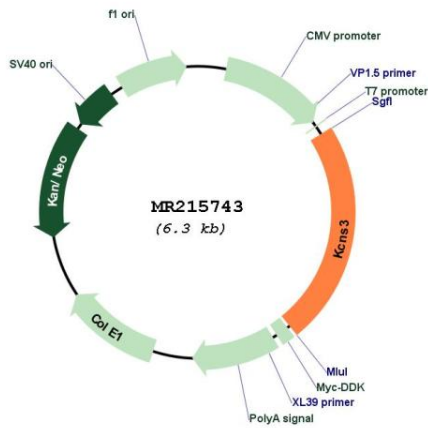
UniProt ID: [Q8BQZ8](#)

Cytogenetics: 12 5.58 cM

MW: 56.4 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 MR215743