

Product datasheet for **MG215743**

Kcns3 (NM_173417) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcns3 (NM_173417) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcns3
Synonyms:	D12Ertd137e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215743 representing NM_173417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGTTTGGTGAAGTTTTCCATCGCCCTGGACAAGATGAGAACTTGTCAACTGAACGTGGGGGCT
 TTAAGCAGTCTGTGGATCAAAGTACACTCTCGGTTCCCTCACACACGACTGGGAAAGCTGCTTACCTG
 CCACTCTGAGGAGGCCATTCTGGAGCTGTGTGATGACTACAGCGTGGCAGATAAAGAGTACTACTTTGAT
 CGGAACCCCTTCTGTTCCAGATACGCTTTGAACCTTTATTACACAGGGAAGCTGCATGTGATGGAGAAC
 TGTGTGCTTCTCCTTCTGCCAGGAGATCGAGTACTGGGGCATCAATGAGCTCTTATTGACTCCTGCTG
 TAGCAGTCGGTACCAGGAGCGCAAGGAGGAGGCCACGACAAGGACTGGGACCAGAAAAGCAACGATGTG
 AGCACAGACTCCTCCTTTGAAGAATCGTCTCTGTTTGAGAAAGAGCTGGAGAAGTTGATGAGCTGAGAT
 TTGGTCAGCTCCGAAAGAAGATCTGGATTCGAATGGAAAATCCAGCTTACTGCCTGTGGCCAAGCTCAT
 TGCCATCTCCTCCTTGGCGTGGTCTGGCTTCCATAGTGCCATGTGTGTGCACAGCATGTCGGAATTC
 CAGAACGAGGATGGAGAAGTGGATGACCCGTGTGCTGGAAGGTGTGGAGATTGCCTGCATTGCATGTTTA
 CTGGTGAGCTAGCCATCAGGCTGGTGGTCTCCATCACAAAAGAAGTTCTGAAAAACCCCTCTGAACAT
 CATTGACTTTGTCTATCATTCCCTTCTATGCCACGTTGGCTGTGGACCAAGGAAGAAGAGAGTGAG
 GACATTGAGAATATGGGCAAGGTGGTCCAGATCCTTCGGCTCATGAGGATTTTCCGAATTTCTGAAGCTTG
 CCCGGCACTCTGTAGGGCTTCGGTCTCTGGGGCCACACTGAGGCACAGTTACCATGAGGTGGGGCTACT
 GCTTCTCTCCTTCTGTGGGCATCTCCATCTTCTGTGCTTATCTACTCTGTGGAGAAAGATGAACAC
 AAGTCCAGTCTCACCAGCATCCCATCTGCTGGTGGGCCACTATCAGTATGACCACAGTGGGCTATG
 GAGACACCCACAGTCACCTTAGCTGGGAAAATCATTGCAAGCACATGTATTATCTGTGGAATCTTGT
 GGTAGCCCTCCCATACCATCATCTTCAACAAGTTTTCCAAGTACTACCAAGCAGAAAAGACATGGAA
 GTGGACAGTGCAGCGAGGACCCACCAGAGAAGTCCATGAGCTACCGTACTTTAACATTAGGGACGTTT
 ATGCACAGCAAGTACATGCCTTATCACCAGTCTGTCTTCCATTGGCATCGTGGTCAAGTATCCTGACTC
 CACAGATGCTTCGAGCGTTGAAGACAATGAGGATGCTTACAACACTGCATCCCTGGAGAAGTACTGGA
 AAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215743 representing NM_173417
 Red=Cloning site Green=Tags(s)

MVFGFFHRPGQDEELVNLNVGGFKQSVQSTLLRFPHTRLGKLLTCHSEEAILEL CDDYSVADKEYYFD
 RNPFLFRYYLNFYYTGKLVHMEELCVFSFCQEI EYWGINELFIDSCSSRYQERKEESHDKDWDQKSNV
 STDSSFEESSLFEKELEKFDLRFGLRKKI WIRMENPAYCLS AKLIAISSL SVVLASIVAMCVHSMSEF
 QNEDGEVDDPVLEGVEIACIAWFTGELAIRLVAAPSQKKFWKNPLNIIDFVSIIPFYATLAVDTKEESE
 DIENMGKVQILRLMRIFRILKLARHSVGLRSLGATLRHSYHEVGLLLLFLSVGISIFSVLIIYSVEKDEH
 KSSLTSIPICWVWATISM TTVGYGDTHPVTLAGKIIASTCII CGILVVALPITIIIFNKFSKYYQKQK DME
 VDQCS EDPPEKHELPHYFNIRDVYAQQVHAFITSLSSIGIVVSDPSTDASSVEDNEDAYNTASLENCTG
 K

TRTRPLE - GFP Tag - V

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.

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

RefSeq Size: 2933 bp

RefSeq ORF: 1476 bp

Locus ID: 238076

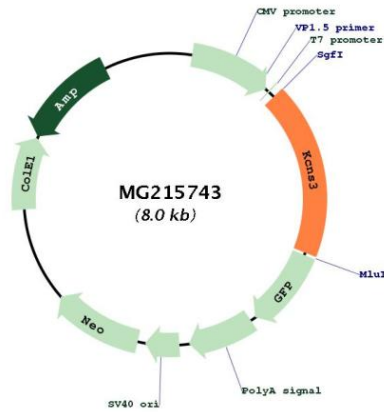
UniProt ID: [Q8BQZ8](#)

Cytogenetics: 12 5.58 cM

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 MG215743