

Product datasheet for **MC216898**

Kcns3 (NM_173417) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcns3 (NM_173417) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcns3
Synonyms:	D12Ertd137e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216898 representing NM_173417
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGTTTGGTGTAGTTTTTCCATCGCCCTGGACAAGATGAGAACTTGTCAACTTGAACGTGGGGGCT
 TTAAGCAGTCTGTGGATCAAAGTACACTCCTGCGGTTCCCTCACACACGACTGGGAAAGCTGCTTACCTG
 CCACTCTGAGGAGGCCATTCTGGAGCTGTGTGATGACTACAGCGTGGCAGATAAAGAGTACTACTTTGAT
 CGGAACCCCTTCTGTTCCAGATACGTCTTGAACTTTTATTACACAGGGAAGCTGCATGTGATGGAGGAAC
 TGTGTGCTTCTCCTTCTGCCAGGAGATCGAGTACTGGGGCATCAATGAGCTCTTATTGACTCCTGCTG
 TAGCAGTCGGTACCAGGAGCGCAAGGAGGAGGCCACGACAAGGACTGGGACCAGAAAAGCAACGATGTG
 AGCACAGACTCCTCCTTTGAAGAATCGTCTCTGTTTGAGAAAGAGCTGGAGAAGTTTGTGAGCTGAGAT
 TTGGTCAGCTCCGAAAGAAGATCTGGATTCGAATGGAAAATCCAGCTTACTGCCTGTGCGCAAGCTCAT
 TGCCATCTCCTCCTTGGCGTGGTGTGGCTTCCATAGTGCCATGTGTGTGCACAGCATGTCGGAATTC
 CAGAACGAGGATGGAGAAGTGGATGACCTGTGCTGGAAGGTGTGGAGATTGCCTGCATTGCATGGTTTA
 CTGGTGAGCTAGCCATCAGGCTGGTTGGTGTCTCCATCACAAAAGAAGTTCTGGAAAAACCCCTCTGAACAT
 CATTGACTTTGTTTCTATCATTCCCTTCTATGCCACGTTGGCTGTGGACCAAGGAAGAAGAGAGTGGAG
 GACATTGAGAATATGGGCAAGGTGGTCCAGATCCTTCGGCTCATGAGGATTTTCCGAATTCTGAAGCTTG
 CCCGGCACTCTGTAGGGCTTCGGTCTCTGGGGCCACACTGAGGCACAGTTACCATGAGGTGGGGTACT
 GCTTCTCTTCTTCTGTGGGCATCTCCATCTTCTGTGCTTATCTACTCTGTGGAGAAAGATGAACAC
 AAGTCCAGTCTCACCAGCATCCCATCTGCTGGTGGTGGGCCACTATCAGTATGACCACAGTGGGCTATG
 GAGACCCACCCAGTCACCTTAGCTGGGAAAATCATTGCAAGCACATGTATTATCTGTGGAATCTTAGT
 GGTAGCCCTCCCATACCATCATCTTCAACAAGTTTTCCAAGTACTACCAGAAGCAGAAAAGACATGGAA
 GTGGACAGTGCAGCGAGGACCCACCAGAGAAGTCCATGAGCTACCGTACTTTAACATTAGGGACGTTT
 ATGCACAGCAAGTACATGCCTTCATCACCAGTCTGTCTTCCATTGGCATCGTGGTGTGAGTCTGACTC
 CACAGATGCTTCGAGCGTTGAAGACAATGAGGATGCTTACAACACTGCATCCCTGGAGAAGTGTACTGGA
 AAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_173417

Insert Size: 1476 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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]
Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.