

Product datasheet for **MC200237**

Kcne3 (NM_020574) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcne3 (NM_020574) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcne3
Synonyms: 2210017H05Rik; MiRP2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC004629 sequence for NM_020574
TCCGAGAGCACTGAGCGCATCTGGGCATTATTGCAGTGTTCACCGGAGACAGATCGTAGAGGCGGGGCTC
TGCCACGTCCATCCTGGAACTTGATAATCAATGACTCTCTAGGAGTTGGAAATCCGGGGACTCAAGGAA
GAGAAACAAAACACCACTGTTTTCTGTCTGTGCCATTTGGAACCAAGAGTTCTAGCTCTGGCCTTTCC
TGTTAACACCACTGACTCTGGCTGCTCCAGATGCACCTTGCAAGGAACTGAGGGTTGTGGGACATCCAC
GAAGAGATCCTCAAAGATGTCTCAGAGCCAGCAGTCTCTGAACTGTTTGTATCATTCCAGCTCTTCC
CATACCTCAATATCTGTTGCTATGGAGACTTCCAACGGGACTGAGACCTGGTACATGAGCCTCCATGCTG
TGCTGAAGGCTCTGAACACAACCCTTACAGTCACTTGTCTGCCGGCCTGGGCCAGGACCAGGGCCAGA
CAATCAAAGTGGATCGTCGGGCTAGCCTTCTGGTCTGTAATGACAACCTACATGTATATTCTCTTT
GTCATGTTCTATTTGCCGTCACTGTGGCAGTCTCATCTGGGATATACCCGTTACGCAAAGTGGACA
AACGTAGTGACCCCTATCATGTGTACATCAAGAACCGTGTGTCTATGATCTGATGTGAGGAACCTGAAGA
CAATGGAAGATTACAATGTCTGAGGATTGTCTTCTGGTGCCTCCGGAGCTCAACTCAACCATATCAAGCC
ACAGTGTATCTATGTAAGATCAACAGGAACTGGTAAGAGGGTTAGGTCATTATTAGGACCAGAGAAGAG
GGACTGATAGGCCAGTCTTGTGGATGAGACATTTTTTCGAGACACAGATGCGCATTATAAACTCAGAGCC
CATGAACACACATATATAAGTATGGACAACCAAGCAAGTAGAAGAGGAAGCTGTGGCGAAGGGAAATGGG
GCAGAAAGATGCTCTGGATATATAATCTTTAATGTATGATCTTCAACATGAGAAACCTTGATAAACTG
AGAATGCTAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_020574

Insert Size: 312 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).



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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:	<ol style="list-style-type: none">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:	<u>BC004629</u> , <u>AAH04629</u>
RefSeq Size:	1073 bp
RefSeq ORF:	312 bp
Locus ID:	57442
UniProt ID:	<u>Q9WTW2</u>
Cytogenetics:	7 E2
Gene Summary:	<p>Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability of the channel complex. Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1. Associated with KCNC4/Kv3.4 is proposed to form the subthreshold voltage-gated potassium channel in skeletal muscle and to establish the resting membrane potential (RMP) in muscle cells. Associated with KCNQ1/KCLQT1 may form the intestinal cAMP-stimulated potassium channel involved in chloride secretion that produces a current with nearly instantaneous activation with a linear current-voltage relationship.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 6. All seven variants encode the same protein.</p>