

Product datasheet for MR200617

Kcne2 (NM_134110) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcne2 (NM_134110) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcne2
Synonyms: 2200002I16Rik; AW048273; MiRP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200617 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCCACATTAGCCAATTTGACCCAGACACTGGAGGATGCCTTCAAAAAGATTTTTATTACTTATATGG
 ACAGCTGGAGGAGGAACACGACGCCGAGGAGCAGGCCTCCAGGCCAGAGTGGATGCCGAGAATTCTA
 CTACGTCATCCTGTACCTCATGGTGATGATCGGCATGTTCTCGTTCATCGTGGTGGCCATCCTGGTGAGC
 ACGGTGAAGTCGAAGCGGCGAGAGCACTCCAGCACCCGTACCACAGTACATCGTGAAGATTGGCAGG
 AAAAGTACAAAAGTCAGATCCTGCATCTGGAAGACTCCAAGGCCACCATCCATGAGAACATGGGGGCGAC
 GGGTTACAGTGTACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200617 protein sequence
 Red=Cloning site Green=Tags(s)
 MATLANLTQTLEDAFKKIFITYMDSWRRNTTAEEQALQARVDAENFYVILYLMVMIGMFSFIVVAILVS
 TVKSKRREHSQHPYHQYIVEDWQEKYKSQLHLEDSKATIHENMGATGFTVSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_134110

ORF Size: 372 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_134110.1](#), [NM_134110.2](#), [NM_134110.3](#), [NP_598871.1](#)

RefSeq Size: 1707 bp

RefSeq ORF: 372 bp

Locus ID: 246133

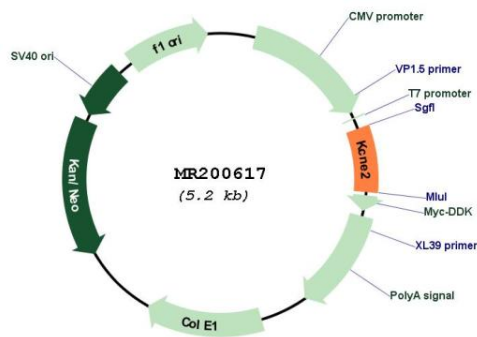
UniProt ID: [Q9D808](#)

Cytogenetics: 16 C4

MW: 14.4 kDa

Gene Summary: 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 KCNH2/HERG is proposed to form the rapidly activating component of the delayed rectifying potassium current in heart (IKr). May associate with KCNQ2 and/or KCNQ3 and modulate the native M-type current. May associate with HCN1 and HCN2 and increase potassium current (By similarity). Interacts with KCNQ1; forms a heterooligomer complex leading to currents with an apparently instantaneous activation, a rapid deactivation process and a linear current-voltage relationship and decreases the amplitude of the outward current (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200617