

Product datasheet for **MC207311**

Kcne1 (NM_008424) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcne1 (NM_008424) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcne1
Synonyms: Isk; Mink; nmf190
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207311 representing NM_008424
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCCTGCCCAATCCACGACTGTTCTGCCCTTTCTGGCCAGGCTGTGGCAGGAGACAGCTGAACAGG
GCGGCAACGTGTCCGGCCTGGCTCGTAAGTCTCAGCTCCGAGATGACAGCAAGCTAGAGGCGCTCTACAT
CCTCATGGTGCTGGGCTTCTTCGGCTTCTCACCTGGGCATCATGCTGAGTTACATCCGATCCAAGAAG
CTGGAGCACTCCACGACCCTTTCAACGTGTACATCGAGTCAGATGCCTGGCAGGAGAAAGCAAGGCCG
TCTTCCAGGCCCGTGTCTGGAGAGCTTCAGAGCTTGCTATGTCATTGAAACCAGGCCGCGCTAGAGCA
GCCTGCCACACCTTCTGAAGCCATTGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_008424
Insert Size: 390 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_008424.3](#), [NP_032450.1](#)

RefSeq Size: 3155 bp

RefSeq ORF: 390 bp

Locus ID: 16509

UniProt ID: [P23299](#)

Cytogenetics: 16 53.57 cM

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. Assembled with KCNQ1/KVLQT1 is proposed to form the slowly activating delayed rectifier cardiac potassium (IKs) channel. The outward current reaches its steady state only after 50 seconds. Assembled with KCNH2/HERG may modulate the rapidly activating component of the delayed rectifying potassium current in heart (IKr).[UniProtKB/Swiss-Prot Function]