

Product datasheet for MR200709

Kcne1 (NM_008424) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Kcne1 (NM_008424) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Kcne1

Synonyms: Isk; MinK; nmf190

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>MR200709 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GCCTGCCACACCCTTCCTGAACTGAAGCCATTGTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA**

Protein Sequence: >MR200709 protein sequence

Red=Cloning site Green=Tags(s)

MSLPNSTTVLPFLARLWQETAEQGGNVSGLARKSQLRDDSKLEALYILMVLGFFGFFTLGIMLSYIRSKK

LEHSHDPFNVYIESDAWQEKGKAVFQARVLESFRACYVIENQAAVEQPATHLPELKPLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

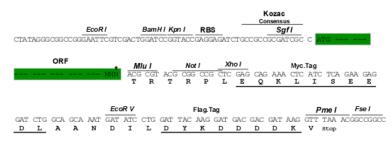
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_008424

ORF Size: 390 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: <u>NM 008424.1</u>

RefSeq Size: 3155 bp
RefSeq ORF: 390 bp
Locus ID: 16509



UniProt ID: P23299

Cytogenetics: 16 53.57 cM **MW:** 14.6 kDa

Gene Summary: Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel

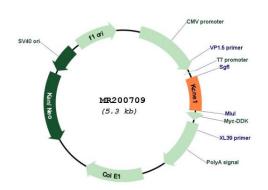
complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability of the channel complex. Assembled with KCNB1 modulates the gating characteristics of the

delayed rectifier voltage-dependent potassium channel KCNB1. 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]

Product images:



Circular map for MR200709