

Product datasheet for RC204246

KCNE4 (NM 080671) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: KCNE4 (NM_080671) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: KCNE4
Synonyms: MIRP3

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC204246 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTGAAAATGGAGCCTCTGAACAGCACGCACCCCGGCACCGCCCTCCAGCAGCCCCCTGGAGTCCC
GTGCGGCCGGTGGCGGCAGCGGCAATGGCAACGAGTACTTCTACATTCTGGTTGTCATGTCCTTCTACGG
CATTTTCTTGATCGGAATCATGCTGGGCTACATGAAATCCAAGAGGCGGGAGAAGAAGTCCAGCCTCCTG
CTGCTGTACAAAGACGAGGAGCGGCTCTGGGGGGAGGCCATGAAGCCGCTGCCCGTGGTGCCGGGCCTGA
GGTCGGTGCAGGTGCCCCTGATGCTGAACATGCTGCAGGAGAGCGTGGCGCCCGCGCTGTCCTGCACCCT
CTGTTCCATGGAAGGGGACAGCGTGAGCTCCGAGTCCTCCCCCGGACGTGCACCTCACCATTCAGGAG
GAGGGGGCAGACGAGCGTGGAGCTCCGAGACCCCCTCAACGAGAGCAGCGCAAGGGTCCTCCG

AGAACATCCATCAGAATTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204246 protein sequence

Red=Cloning site Green=Tags(s)

MLKMEPLNSTHPGTAASSSPLESRAAGGGSGNGNEYFYILVVMSFYGIFLIGIMLGYMKSKRREKKSSLL LLYKDEERLWGEAMKPLPVVSGLRSVQVPLMLNMLQESVAPALSCTLCSMEGDSVSSESSSPDVHLTIQE

EGADEELEETSETPLNESSEGSSENIHQNS

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk6059 f01.zip



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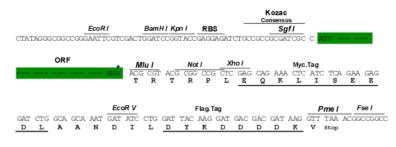
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





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

ACCN: NM_080671

ORF Size: 510 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 080671.1, NP 542402.1

RefSeq Size: 3190 bp
RefSeq ORF: 513 bp
Locus ID: 23704
UniProt ID: Q8WWG9



Cytogenetics: 2q36.1

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

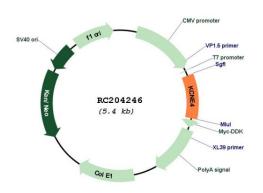
MW: 18.4 kDa

Gene Summary: Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion

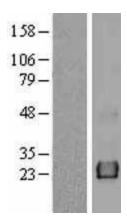
channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, isk-related subfamily. This member is a type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the embryo and in adult uterus. [provided by

RefSeq, Jul 2008]

Product images:



Circular map for RC204246



Western blot validation of overexpression lysate (Cat# [LY403312]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204246 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).