

Product datasheet for **RC231746**

KCNE1 (NM_001270403) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNE1 (NM_001270403) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: KCNE1
Synonyms: ISK; JLNS; JLNS2; LQT2/5; LQT5; MinK
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC231746 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCTGTCTAACACCACAGCGGTGACGCCCTTTCTGACCAAGCTGTGGCAGGAGACAGTTCCAGCAGG
GTGGCAACATGTCGGGCTGGCCCGCAGGTCCCCCGCAGCAGTGACGGCAAGCTGGAGGCCCTCTACGT
CCTCATGGTACTGGGATTCTTCGGCTTCTCACCTGGGCATCATGCTGAGCTACATCCGCTCCAAGAAG
CTGGAGCACTCGAACGACCCATTCAACGTCTACATCGAGTCCGATGCCTGGCAAGAGAAGGACAAGGCCT
ATGTCCAGGCCCGGTCTGGAGAGCTACAGGTCGTGCTATGTCGTTGAAAACCATCTGGCCATAGAACA
ACCCAACACACACCTTCTGAGACGAAGCCTTCCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231746 protein sequence
Red=Cloning site Green=Tags(s)
MILSNTTAVTPFLTKLWQETVQQGNMSGLARRSPRSSDGKLEALYVLMVLGFFGFFTLGIMLSYIRSKK
LEHSNDPFNVYIESDAWQEKDKAYVQARVLESYRSCYVVENHLAIEQPNTLHPETKPSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2329_a07.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001270403

ORF Size: 387 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_001270403.2](#)

RefSeq Size: 3298 bp

RefSeq ORF: 390 bp

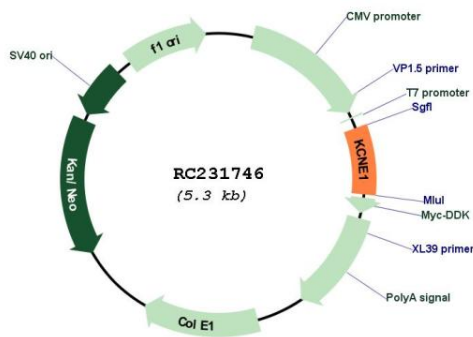
Locus ID: 3753

UniProt ID: [P15382](#)

Cytogenetics: 21q22.12
Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane
MW: 14.7 kDa

Gene Summary: The product of this gene belongs to the potassium channel KCNE family. Potassium ion channels are essential to many cellular functions and show a high degree of diversity, varying in their electrophysiologic and pharmacologic properties. This gene encodes a transmembrane protein known to associate with the product of the KVLQT1 gene to form the delayed rectifier potassium channel. Mutation in this gene are associated with both Jervell and Lange-Nielsen and Romano-Ward forms of long-QT syndrome. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC231746