

## Product datasheet for **RG206049**

### **KCNE1 (NM\_000219) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNE1 (NM\_000219) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KCNE1  
**Synonyms:** ISK; JLNS; JLNS2; LQT2/5; LQT5; MinK  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206049 representing NM\_000219  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCCTGTCTAACACCACAGCGGTGACGCCCTTCTGACCAAGCTGTGGCAGGAGACAGTTCAGCAGG  
GTGGCAACATGTCGGCCTGGCCACAGGTCCCCCGCAGCGGTGACGGCAAGCTGGAGGCCCTCTACGT  
CCTCATGGTACTGGGATTCTTCGGCTTCTCACCTGGGCATCATGCTGAGCTACATCCGCTCCAAGAAG  
CTGGAGCACTCGAACGACCCATTCAACGTCTACATCGAGTCCGATGCCTGGCAAGAGAAGGACAAGGCCT  
ATGTCCAGGCCCGGGTCTGGAGAGCTACAGGTCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206049 representing NM\_000219  
Red=Cloning site Green=Tags(s)  
MILSNTTAVTPFLTKLWQETVQQGNMSGLAHRSPRSGDKLEALYVLMVLGFFGFFTLGIMLSYIRSKK  
LEHSNDPFNVYIESDAWQEKDKAYVQARVLESYRS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_000219

**ORF Size:** 315 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.

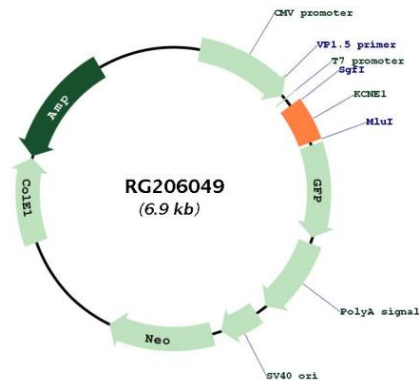
**RefSeq:** [NM\\_000219.2](#), [NP\\_000210.2](#)

**RefSeq Size:** 3570 bp

**RefSeq ORF:** 390 bp

**Locus ID:** 3753  
**UniProt ID:** [P15382](#)  
**Cytogenetics:** 21q22.12  
**Protein Families:** Druggable Genome, Ion Channels: Other, Transmembrane  
**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 RG206049