

Product datasheet for **SC322835**

KCNE1 (NM_001127668) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNE1 (NM_001127668) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001127668, the custom clone sequence may differ by one or more nucleotides

```
ATGATCCTGTCTAACACCACAGCGGTGACGCCCTTTCTGACCAAGCTGTGGCAGGAGACAGTTCAGCAGG
GTGGCAACATGTCGGGCCTGGCCCGCAGGTCCCCCGCAGCAGTGACGGCAAGCTGGAGGCCCTCTACGT
CCTCATGGTACTGGGATTCTTCGGCTTCTTCACCCTGGGCATCATGCTGAGCTACATCCGCTCCAAGAAG
CTGGAGCACTCGAACGACCCATTCAACGTCTACATCGAGTCCGATGCCTGGCAAGAGAAGGACAAGGCCT
ATGTCCAGGCCCGGTCTGGAGAGCTACAGGTCGTGCTATGTCGTTGAAAACCATCTGGCCATAGAACA
ACCCAACACACCTTCTGAGACGAAGCCTTCCCATGA
```

Restriction Sites:	Please inquire
ACCN:	NM_001127668



[View online »](#)

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001127668.1](#), [NP_001121140.1](#)

RefSeq Size: 3199 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]

Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 2. All variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.