

Product datasheet for **SC322837**

KCNE1 (NM_001127670) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNE1 (NM_001127670) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNE1
Synonyms:	ISK; JLNS; JLNS2; LQT2/5; LQT5; MinK
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001127670, the custom clone sequence may differ by one or more nucleotides ATGATCCTGTCTAACACCACAGCGGTGACGCCCTTTCTGACCAAGCTGTGGCAGGAGACA GTTCAGCAGGGTGGCAACATGTCGGGCTGGCCCGCAGGTCCCCCGCAGCAGTGACGGC AAGCTGGAGGCCCTCTACGTCCTCATGGTACTGGGATTCTTCGGCTTCTTCACCCCTGGGC ATCATGCTGAGCTACATCCGCTCCAAGAAGCTGGAGCACTCGAACGACCCATTCAACGTC TACATCGAGTCCGATGCCTGGCAAGAGAAGGACAAGGCCTATGTCCAGGCCCGGGTCTG GAGAGCTACAGGTCGTGCTATGTCGTTGAAAACCATCTGGCCATAGAACAACCCAACACA CACCTTCTGAGACGAAGCCTTCCCA
Restriction Sites:	Please inquire
ACCN:	NM_001127670
Insert Size:	3424 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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_001127670.1](#), [NP_001121142.1](#)

RefSeq Size: 3424 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 (1) 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.