

## Product datasheet for **SC122221**

### KCNE1 (BC036452) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNE1 (BC036452) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNE1
Synonyms:	cardiac delayed rectifier potassium channel pro; FLJ18426; FLJ38123; FLJ94103; IKs producing slow voltage-gated potassium channel subunit beta Mink; ISK; JLNS; JLNS2; LQT2/5; LQT5; MGC33114; Mink; OTTHUMP00000108623; OTTHUMP00000108625; OTTHUMP00000108626
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC036452 edited

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AGCGGGCTGTCTGTGGCCTCAGCGCTCGGCAGGCGCGCACTCAGCTCCACACCCGGCTCT
CTCGGCATCTCAGACCCGGTTTCACACAATCATCAGGTGAGCCGAGGATCCATTGGAGGA
AGGCATTATCTGTATCCAGAGGAAATAGCCAGGATATTCAGAGGTGTGCCTGGGAAGTTT
GAGCTGCAGCAGTGGAACTTAATGCCAGGATGATCCTGTCTAACACCACAGCGGTGAC
GCCCTTTCTGACCAAGCTGTGGCAGGAGACAGTTCAGCAGGTGGCAACATGTCGGGCCT
GGCCACAGGTCCCCCGCAGCGGTGACGGCAAGCTGGAGGCCCTCTACGTCTCATGGT
ACTGGGATTCCTCGGCTTCTTCACCTGGGCATCATGCTGAGCTACATCCGCTCCAAGAA
GCTGGAGCACTCGAACGCCATTCAACGTCTACATCGAGTCCGATGCCTGGCAAGAGAA
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AAACCTCTGGCCATAGAACAACCAACACACACCTTCTGAGACGAAGCCTTCCCCATG
AACCCACCAGTGGCTAAAAGTGGACACATCCTGCCTGGCAACCTGATTTTCTAATCACA
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TCCTGAAAACACACAGGCACATACACTCATATACATAGACACACATACACACCTCAATC

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TAGAAAGAACTTGCTTTGTACAGGGCTGAGATGGAGGAGAAAAAATGCCCCCTTCAGGA  
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 ACCTTCAATGTGACCTAATTGGGAAATAGAGTCTTTCAGATGATCTAGTTGAGATGAGG  
 TCATTGGGGTGGCCCTCACCAATATGACTGGAGTCTTATCGGAAGAGGGAAATTCAG  
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 CCAGGAAGGCTCCTCTCCACAGGTTTCAGAGGAAGCACAGCCCTGCTTGAATTCAAACT  
 TTTGGCCTCCAGAACTGTGAGTCAGTACCTGTTGTTGAAGCCACCCAGCTTAGGATACTC  
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 ATCTCTTCTCTCCTCTACATTTTTAAAGGGGAGAGGGAAAAAGTAACCGGAGACA  
 AATTGAGCCACATATTTTCAGACACTTGTACCATATTTTAAATCTGGCTTACATACA  
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 TTATTTTGCAGGCAATACTCTGTGCATTATTAGCTAGGACAACAATGCATTTGCAGTAG  
 TGAGATTCGTTAAAAAATTAAGCCATTTACTATGGAAAAAATTTTTTTTTT

**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC036452 unedited  
 NCGCCATCCTGATTTGTAACCCACTCATATAGGCGGCAGAATCACTTCGTATAGCATA  
 TTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGCTG  
 TCTGTGGCCTCAGCGCTCGGCAGGCGCACTCAGCTCCACACCCGGCTCTCTCGGCATC  
 TCAGACCCGGTTTACACAATCATCAGGTGAGCCGAGGTATTTTTTGGAGGAAGGCATTA  
 TCTGTATCCAGAGGAAATAGCCAGGATATTCAGAGGTGTGCTGGGAAGTTTGGAGCTGCA  
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 TGACCAAGCTGTGGCAGGAGACAGTTCAGCAGGGTGGCAACATGTGGGCCTGGCCACA  
 GGTCCCCCGCAGCGGTGACGGCAAGCTGGAGGCCTCTACGTCCCTCATGGTACTGGGAT  
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 ACTCGAACGACCCATTCAACGTCTACATCGAGTCCGATGCCTGGCAAGAGAAGGACAAGG  
 CCTATGTCCAGGCCCGGGTCTGGAGAGCTACAGGTGCTGATATGTGTTGAAAACCATC  
 TGGCCATAGAACAACCAACACACACCTTCTGAGACGAAGCCTTCCCCATGAACCCAC  
 CACTGGCTAANACTGGACACATCCTGCCTGGCAACCTGATTTTCTAATCACATTCCTCTC  
 ATACTCTTTATTGTGATGGATACCACTGGATTTCTTTTTGGCTGTTGTAAGGGTGGGGG  
 GTGGATTAATGACACTGGTGTCTTCTCTAAAATACCGTCTTTTTGTAGAAGACTG  
 GCAGTGGGTCCCCGATCTGTC

**Restriction Sites:**

Please inquire

**ACCN:**

BC036452

**Insert Size:**

3173 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC036452.1</a> , <a href="#">AAH36452.1</a>
<b>RefSeq Size:</b>	3173 bp
<b>RefSeq ORF:</b>	315 bp
<b>Locus ID:</b>	3753
<b>Cytogenetics:</b>	21q22.12
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>Gene Summary:</b>	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]