

Product datasheet for **SC104772**

KCNE3 (BC032235) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNE3 (BC032235) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNE3
Synonyms:	HOKPP; HYPP; MiRP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for BC032235, the custom clone sequence may differ by one or more nucleotides

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CCAGCTCCGAAGTCAATACTGAGATCCCAGATGTGTCCAGAGACATCCTGAAGAGGCTCGGGGGTGGAGG
AGCCTTAGTGTGCCACAAGGGACTCCTGAAACTGACTGAGAGCCAGTGGATTTGCCAGCAGTCTGAGC
TTCTACCGAGTCTTCCCCACCTCAATCCCTGTTGCTATGGAGACTACCAATGGAACGGAGACCTGGTAT
GAGAGCCTGCATGCCGTGCTGAAGGCTCTAAATGCCACTTTCACAGCAATTTGCTCTGCCGGCCAGGGC
CAGGGCTGGGGCCAGACAACCAGACTGAAGAGAGGCGGGCCAGCCTACCTGGCCGTGATGACAACTCCTA
CATGTACATTCTTTGTGTCATGTTTCTATTTGCTGTAAGTGTGGGCAGCCTCATCCTGGGATACACCCGC
TCCCGCAAAGTGGACAAGCGTAGTGACCCTATCATGTGTATATCAAGAACCCTGTGTCTATGATCTAAC
ACGAGAGGGCTGGGACGGTGAAGACCAAGACACCTGGGGATTGCGTCTGGGGCTCCAGAACTCTGCTG
TGGACTGCATCAGGTCTCAGTGTCCCTATCTGTAAGATCAACAAGAAACACGGTTAAGGGAGGTCGTAC
TGGGGTGGGAGAAGAGGGGCTGGTAGACCGAAGCCTTGTGCATAAGGATTTTTTCCAGGAAAAGATAGA
CTTTATAAACAGTGGGAGCCCATGAACAAACATATAAAAGTAGCAACAGATAATGACCAATAACTGGTTC
AGTGGCTGGAGTATTAGGGCCCTGGGGATTGGAGAACGGAGAAGAAGTTGTAGCAGAGGGAAATGAGACA
GGAAGATGCTCTGGGGACACATTTTTATGTGTTATCTTCAGCCATGAGAAGCAGTGATGACTATCCCAT
ATCACAGATATGATTTACCACCACCACCCTGCCCCGCTCCCGTGAAGAAAGCAGGGCAAGTGTGTGCT
GCCCATTTGGGCCTGCATAGTGCCATGATTGGAACCCAGGAACCTGGTCTCCTTGCCCTAGTGTCTTTCA
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ACCCCCACCTCCCGGTTCAAGCAATTATCCTGCCTCAGCCACCTGAGTGGCTGGGATTACAGGTTCTCTG
TCACCACACCCAGTTAATTTATATATATATATATATATATATATATATATATATATATATATATATAT
AGGTTTTCACATGTTGCCAGGCTGGTCTCGAAGTCTCCTCAAGTTATCTGCCCATTTTGGTCTCCC
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TGCTTCTAAAAGACTGATACTGCCAAGGTGGGCGGATCACCTGAGGTGAGGATTCGAGACCAGCCTGGC
CAACATGGTGAACCCCATCTACTAAAAAATACAAAAATAGCCAGACCTGGTGGCGGGTGCCCGTATT
CCCAGTACTTGGGAGGCTGAGGCGGGAGAATTGTTGGGCCCGGAGGTGGAGGTTGACGTGAGCCAGG
ATCACGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGGCTCTGTCTCAAAAAAAAAACAAAAACAAAA
CAAAAAAGACTGATATCGCACCTAAATTATTATATATATATATATATATATATATATATATATATATAT
GGTCCAGTAGGAAGAGAAGCAGCCCTGATTCTACCACTAAGGTGATGTATGATCTTAGGCTGGACACTT
CTCTCCCTCATCCGTTTTCTCTTCAACATAATGAAATAGACTTGAAAGTCTCTAAGGCTCTATCAGTTC
TGACATTCTAGGCTTCATATACATTAAGTTGAGCCATATGTAATCACTGTGTTTGTAGGTTAGAAACAGC
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GAAACTATCCCAGATCTCAGCTAGAACCATCCACTGTTTGTGTTTCCAGTTTCAACTTAAAGGGATCTCC
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ACAGCAGTTATCTCTGAGGAATTGGGTTATAGGTGATTTTCCCTTCCGATGATAAATTTATGTAATAT
TTGACTGACTTGACCGTAAGTATGTTACTTGTATAATAAAAGAAAAAAGGTAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for BC032235 unedited CAACATTTTGTGNTAATACGACTCACTATAGGGCGGCCGGAATTCGCACCAGCTGGGCTTT CCCAGCTCCGAAGTCAATACTGAGATCCCAGATGTGTCCAGAGACATCCTGAAGAGGCTC GGGGGTGGAGGAGCCTTAGTGTGTCCACAAAGGGACTCCTGAAACTGACTGAGAGCCAGT GGATTTGCCAGCAGTCTGAGCTTCTACCGAGTCTCCCCACCTCAATCCCTGTTGCTAT GGAGACTACCAATGGAACGGAGACCTGGTATGAGAGCCTGCATGCCGTGCTGAAGGCTCT AAATGCCACTTTCACAGCAATTTGCTCTGCCGGCCAGGGCCAGGGCTGGGGCCAGACAA CCAGACTGAAGAGAGGCCGGCCAGCCTACCTGGCCGTGATGACAACCTCCTACATGTACAT TCTCTTTGTCATGTTTCTATTTGCTGTAACCTGTGGCAGCCTCATCCTGGGATACACCCG CTCCCGCAAAGTGGACAAGCGTAGTGACCCCTATCATGTGTATATCAAGAACCGTGTGTC TATGATCTAACACGAGAGGGCTGGGACGGTGAAGACCAAGACACCTGGGGATTGCGTCT GGGGCCTCCAGAACTCTGCTGTGGACTGCATCAGGTCTCAGTGTCCCTATCTGTAAGATC AACAGAAACACGGTTAAGGGAGGTCGTCAGTGGGTGGGAGAAGAGGGGCTGGTAGACC GAAGCCTTGTGCATAAGGATTTTTTCCAGGAAAAGATAGACTTTATAAACAGTGGGAG CCCATGAACAAACATATAAAAGTAGCAACAGATAATGACCAAATACTGGTTCAGTGGCTG GAGTATTAAGGGGCTGGGGATTGGAGAAACGAAAGNAAGTGTAGCANAGGAAATGANACA GGAAGAGCTCTGGGGCACATTTTTTATGTGTATCTCAGCCTGAGAAGCATGATGACTATC CATAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for BC032235 unedited NGCCCCTCTAGNACGCGGCCCTTCTAAGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTT CAAAATAGAATACCTTTTTTCTTTTATTATACAAGTAACATACTTACGGTCAAGTCAGT CAAATATTACATAAATTTATCATGCGGAAAGGGAAAATCACCTATAACCCAATTCCTCAG AGATAACTGCTATCAGAATATTATTTTCAGAGTTCTGCTATACACAAATACGCAGGTTTCA ATGGGTACTTCCAGGGACCGCATGGAGATCCCTTAAGTTGAAACTGGACAAAACAGAACAG TGGATGGTTCTAGCTGAGATCTGGGATAGTTTCTGAATTCAGAAGTGTCCACCAGCCACA TTGCATGTATTAGCTGGAACCATATATGAAACTACGATACTCAGCTGTTTCTAACCTACA AACACAGTGATTACATATGGCTCAACTTAATGTATATGAAGCCTAGAATGTCAGAAGTGA TAGAGCCTTAGAGACTTTCAAGTCTATTTCAATTATGTTGAAGAGGAAAACGGATGAGGGA GAGAAGTGTCCAGCCTAAGATCATACATCACCTTAAGTGGTAGAATCAGGGCTGCTTCTC TTCTACTGGACCATGTACCTGTCTCTCATACTCTGCTTCTTTTTAATATAATAATAATTT AAGTGCATATCAGTCTTTTTTGTGTTTTGGTTTTGTTTTCTTTGAGACAGAGCCTTGCT CTGTACCAGCCTGGGAGTGCANTGGCGTGATCCCGGCCACTGCAACCTCCGCCTCCNA GGCCAAACAATCCTCCCGCCTCAGCCTCCAGCAGCTGGGAATACGGGCACCCGCCACC AGGTCTGGCTATTTTTGTATTTTT</p>
Restriction Sites:	NotI-NotI
ACCN:	BC032235
Insert Size:	2750 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).
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: [BC032235.1](#)

RefSeq Size: 2684 bp

RefSeq ORF: 2684 bp

Locus ID: 10008

Cytogenetics: 11q13.4

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

Gene Summary: Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, isk-related subfamily. This member is a type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the kidney. A missense mutation in this gene is associated with hypokalemic periodic paralysis. [provided by RefSeq, Jul 2008]