

Product datasheet for **SC111131**

KCNE3 (NM_005472) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNE3 (NM_005472) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNE3
Synonyms:	BRGDA6; HOKPP; HYPP; MiRP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005472, the custom clone sequence may differ by one or more nucleotides

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ATGGAGACTACCAATGGAACGGAGACCTGGTATGAGAGCCTGCATGCCGTGCTGAAGGCTCTAAATGCCA  
CTCTTCACAGCAATTTGCTCTGCCGCCAGGGCCAGGGCTGGGGCCAGACAACCAGACTGAAGAGAGGCG  
GGCCAGCCTACCTGGCCGTGATGACAACTCCTACATGTACATTCTTTGTGTCATGTTTCTATTTGCTGTA  
ACTGTGGGCAGCCTCATCCTGGGATACACCCGCTCCCGCAAAGTGGACAAGCGTAGTGACCCCTATCATG  
TGTATATCAAGAACCGTGTGTCTATGATCTAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005472 unedited NGGTTGTGCGNAATTTGTATACGACTCCTATAGGCGGCCGCGNATTCGGCACCAGCCGGGG NAGAGTGGGTGTGCTGGGGCCCGGGCGGGGAGGGGAGGGGACGCCGGGGGAGGGAAA AGGGAGCCGAGCGCGGTGGGAGCCAGAGCCAGAGAGCGCGCTGGGCGGTGCTGGGCAC CCGCGGAGTGGAACGGGGCTGGTGAATGCACAGGGTCGACGCGCTTGGGCCACCTCG TCAGAGGGCGCCGTGTCCAGCGAGCAAACGGGGCCCGGAGCCTTGCTGAGAGGCAGCT CTGGGCTTTCCAGCTCCGAAGTCAATACTGAGATCCCAGATGTGTCCAGAGACATCCTG AAGAGGCTCGGGGTGGAGGAGCCTTAGTGTGCCACAAAGGGACTCCTGAAACTGACTG AGAGCCAGTGGATTTGCCAGCAGTCTGAGCTTCTACCGAGTCTTCCCCACCTCAATCCC TGTTGCTATGGAGACTACCAATGGAACGGAGACCTGGTATGAGAGCCTGCATGCCGTGCT GAAGGCTCTAAATGCCACTCTTACAGCAATTTGCTCTGCCGGCCAGGGCCAGGGCTGGG GCCAGACAACCAGACTGAAGAGAGGGCGGGCCAGCCTACCTGGCCGTGATGACAACTCTA CATGTACATTCTTTGTATGTTTCTATTTGCTGTAAGTGTGGGCAGCCTCATCCTGGG ATACACCCGCTCCCGCAAAGTGGACAAGCGTAGTGACCCCTATCATGTGTATATCAAGAA CCGTGTGTCTATGATCTAACACGAGAGGGCTGTGACGGTGAAGACCACAGACACCTGGG ATTGCGTCTGGGGCTCCAGAACTCTGCTGTGGACTGCATCCAGTCTCAGTGTCCCTATC TGTAATA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005472 unedited ATGGACCGCGCGCCGAATCTANAATCGAGTTTTTTTTTTTTTTTTTTTTTTTCAAAAACCCA AAGGCTTTTATTTTTATTTTTTCAAATAAAAAGTACCTTTTTTCTTTTATTATACAAGT AACATACTTACGGTCAAGTCAGTCAAATATTACATAAATTTATCATGCGGAAAGGGAAAA TCACCTATAACCCAATTCTCAAAGATAACTGCTGTCAAATATTATTTCAAAGTTCTGC TATACACAAATACGCATGTTTCAATGGGTACTTCCAGGGACCGCATGGAGATCCCTTAAG TTGAAACTGGACAAACAGAACAGTGGATGGTTCTAGCTGAGATCTGGGATAGTTTCTGAA TTCAGAAGTGTTCACCAGCCACATTGCATGTATTAGCTGGAACCATATATGAAACTACGA TACTCAGCTGTTTCTAACCTACAAACACAGTGATTACATATGGCTCAACTAATGTATAT GAAGCCTAGAATGTCAGAACTGATAGAGCCTTAGAGACTTTCAAGTCTATTTTCATTATGT TGGTAGAATCAGGGCTGCTTCTCTTCTACTGGACCATGTACCTGTCTCTCATACTTCTGC TTCTTTTAAATATAATAATAATTTAGGTGCGATATCAGNCTTTTTTGTTTTTTGTTTTCGT TTTTTTTTTGAGACGAGCCTTGGTCTGGCACCCAGNCTGGGATGCAAGTGGCGTGAATCTT GGGTCAATGGACCCTCCACCTCCCGGGCCAAACAATTTCTCCTGCCTAGGCTTCCAGAA ATGCTGGGAATACGGGCCCCCGCCCCACGCCGGCCATTTTCTCCTTCCCCTCAGTATA CCGCCCCCCTTCTCCTGCCATTTCGCCCCCCCACTTTTCGCGCCGCCGTTCCGCCG TCCCTCGTTCCCGTGTGGCCCCCACCCTGTCCACCTCTCCTCCCCTCTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005472
Insert Size:	3410 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:	<ol style="list-style-type: none">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_005472.3 , NP_005463.1
RefSeq Size:	2534 bp
RefSeq ORF:	312 bp
Locus ID:	10008
UniProt ID:	Q9Y6H6
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]