

Product datasheet for **SC303559**

KCNC3 (NM_004977) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNC3 (NM_004977) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNC3
Synonyms:	KSHIID; KV3.3; SCA13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004977 edited
 ATGCTGAGCTCAGTCTGCGTCTCGTCTTCCGCGGGCGCCAGGGGGCCAGCAAGCAGCAG
 CCGGGCCACCGCCGAGCCGCCGAGTCCCGCCGCGCCACCGCTGCCGCCGAGCAG
 CAGCAGCTGCGCAGCCCGGCCCGCGTCCCGGGCGGGCCCCCGCACCCCGGGG
 CCCGGGACCGGGCGCCGAGCCATGCCCGGGCTGCCGGCGGGCCATGGGGCGGCAC
 GCGGGCGGGTGGGACAGCGCAAGATCGTGATCAACGTGGGCGGGTGGCCATGAG
 ACGTACCGCTCGACGCTGCGCACCTGCCGGGGACGCGGTGGCCGGCCTGACGGAGCC
 GAGGCGGGCAGCAGCTTTCGACTACGACCCGGGGCGCGACGAGTTCTTCTTTGACCGGCAC
 CCGGGAGTCTTCGCTACGTGCTCAACTACTACCGCACCGGCAAGCTGCACTGCCAGCC
 GACGTGTGCGGGCCCTGTTTGAGGAGGAGCTCGGCTTCTGGGGCATCGACGAGACCGAC
 GTGGAGGCTGCTGCTGGATGACCTACCGCAGCATCGCGACGCTGAGGAGGCGCTCGAC
 TCCTTCGAGGCGCCGACCCCGGGGCGCCCAACGCCCAACGCCGAGGCGCCAC
 GACGGAGGCTGGACGACGAGGCGGGCGGGCGGGCGGGCCTGGACGGAGCGGGCGG
 GAGCTCAAGCGCTCTGCTTCCAGGACGCGGGCGGGCGGGCGGGGGCCAGGGGGC
 GCGGGCGGGCGGGCGGCACATGGTGGCCCGCTGGCAGCCCGGTGTGGGCGCTTTC
 GAGGACCCTACTCGTCGCGGGCTGCCAGGTATGTGGCCTTCGCCTCCCTCTTTCATC
 CTCATCTCCATCACACCTTCTGCCTGGAACCCATGAGGGCTTCATCCATATTAGCAAC
 AAGACGGTGACCCAGGCCTCCCGATCCCGGGGCACCTCCGGAGAACATCACCACCGT
 GAGGTGGAGACGGAGCCCTTCTGACCTACGTGGAGGGGTGTGCGTGGTCTGGTTACCC
 TTCGAGTTCCTCATGCGCATCACCTTCTGCCCAGACAAGTGGAGTTTCTTAAAAGCAGC
 CTCAACATCATCGACTGTGTGGCCATCCTGCCCTTCTATCTCGAGGTGGCCTCTCGGG
 CTCAGCTCCAAGCGCCAAAGACGTGCTGGGCTTCTGCGGGTGGTCCGCTTCGTCGCG
 ATCTCGGCATCTTCAAGCTGACCCGGCACTTCTGCGGGTGGTCCGCTTCGTCGCG
 CTCGCGCCAGCACCAAGAGTTCTGCTGCTCATCATCTTCTGCGCCCTGGGGGTGCTC
 ATCTTCGCCACCATGATTTACTACGCTGAGCGCATTGGCGCCGACCCCGATGACATCCTG
 GGCTCAAACCACCTACTTCAAGAACATCCCCATTGGCTTCTGGTGGGCTGTGGTCACC
 ATGACGACCTGGGCTATGGAGACATGTACCCCAAGACGTGGTCGGGGATGCTGGTCGGG
 GCGCTGTGTGCCCTGGCGGGGTGCTGACCATCGCCATGCCTGTGCCGTATTGTCAAC
 AACTTTGGCATGTACTATTGCTGGCCATGGCCAAGCAGAAGCTGCCAAGAAGAAGAAC
 AAACACATCCCCGGCCCCGCAACCGGGCTCGCCCACTACTGCAAGCCTGACCCACCC
 CCGCCACCCCGCCACCCGCACCACGGCAGCGGGGCATCAGCCCGCCGCCACCCATC
 ACCCCACCTCCATGGGGGTGACTGTGGCCGGGGCTACCCAGCGGGGCCCCACACGCAC
 CCCGGGTGCTCAGGGGGGAGCGGGTGGGCTGGGGATCATGGGGCTGCCTCCTCTGCCA
 GCCCCGCGGAGCCTTGCCCGTTGGCTCAGGAGGAGGTGATTGAGATCAACCGGGCAGAT
 CCTCGCCCAATGGGGATCCGGCAGCAGCTGCGCTTGCCACGAGGACTGCCAGCCATT
 GACCAGCTGCCATGTCCCGGAAGACAAGAGCCCATCACGCCTGGAAGCCGTGGCCGC
 TATAGCCGGGACCGAGCTGCTTCTCCTCACCAGCTATGCCCTTCCCCTGATGGCTCC
 ATCCGAAAAGCCACTGGTGTCTCCCCACTGCCCCCAAGACTGGCGTAAGCCAGGCCCC
 CCAAGTCTTTCGCCGACCTCAACGCCAACGCCGGCCTGGATATCCCCCTAG

Restriction Sites: Please inquire

ACCN: NM_004977

Insert Size: 2300 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.</p>
Components:	<p>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).</p>
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:	<p>NM_004977.2, NP_004968.2</p>
RefSeq Size:	<p>3176 bp</p>
RefSeq ORF:	<p>2274 bp</p>
Locus ID:	<p>3748</p>
UniProt ID:	<p>Q14003</p>
Cytogenetics:	<p>19q13.33</p>
Protein Families:	<p>Druggable Genome, Ion Channels: Potassium, Transmembrane</p>
Gene Summary:	<p>The Shaker gene family of Drosophila encodes components of voltage-gated potassium channels and is comprised of four subfamilies. Based on sequence similarity, this gene is similar to one of these subfamilies, namely the Shaw subfamily. The protein encoded by this gene belongs to the delayed rectifier class of channel proteins and is an integral membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. Alternate splicing results in several transcript variants. [provided by RefSeq, Mar 2014]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the protein.</p>