

Product datasheet for **SC306736**

Kv4.3 (KCND3) (NM_172198) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kv4.3 (KCND3) (NM_172198) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCND3
Synonyms:	BRGDA9; KCND3L; KCND3S; KSHIVB; KV4.3; SCA19; SCA22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_172198 edited
 ATGGCGGCCGGAGTTGCGGCCTGGCTGCCTTTTGCCCGGGCTGCGGCCATCGGGTGGATG
 CCGGTGGCCAACCTGCCCATGCCCTGGCCCCGGCCGACAAGAACAAGCGGCAGGATGAG
 CTGATTGTCTCAACGTGAGTGGGCGGAGGTTCCAGACCTGGAGGACCACGCTGGAGCGC
 TACCCGGACACCTGTGGGCAGCACGGAGAAGGAGTTCTTCTCAACGAGGACACCAAG
 GAGTACTTCTTCGACCGGGACCCCGAGGTGTTCCGCTGCGTGTCAACTTCTACCGCACG
 GGAAGCTGCACTACCCGCGCTACGAGTGCATCTCTGCCTACGACGACGAGCTGGCCTTC
 TACGGCATCCTCCCGGAGATCATCGGGGACTGCTGCTACGAGGAGTACAAGGACCGCAAG
 AGGGAGAACGCCGAGCGGCTCATGGACGACAACGACTCGGAGAACAACCAGGAGTCCATG
 CCCTCGCTCAGCTTCCGCCAGACCATGTGGCGGGCCTTCGAGAACCCCCACACCAGCACG
 CTGGCCCTGGTCTTCTACTACGTGACTGGCTTCTTCATCGCTGTCTCGGTATACCAAC
 GTGGTGGAGACGGTGCCTGCGGCACGGTCCCGGGCAGCAAGGAGCTGCCGTGCGGGGAG
 CGCTACTCGTGGCTTCTTCTGCCTGGACACGGCGTGCATGATCTTACCCTGGAG
 TACCTCTGCGGCTTCTGCGGCTCCAGCCGCTACCGCTTCATCCGACGCTCATGAGC
 ATCATCGACGTGGTGGCCATCATGCCCTACTACATCGGTCTGGTATGACCAACAACGAG
 GACGTGTCCGGCCCTTGTGCTCACGCTCCGGTCTTCCGCTCTTCAAGATCTTAAAGTTT
 TCCCGCCACTCCAGGGCTGCGGATCCTGGGCTACACACTGAAGAGCTGTGCCTCCGAA
 CTGGGCTTTCTTCTTCTCCTCACCATGGCCATCATCATCTTTGCCACTGTGATGTTT
 TATGCCGAGAAGGGCTCCTCGGCCAGCAAGTTCACAAGCATCCCTGCCTCGTTTTGGTAC
 ACCATTGTACCATGACCACACTGGGATACGGAGACATGGTGCCTAAGACGATTGCAGGG
 AAGATCTTCGGCTCCATCTGCTCCTTGAAGTGGCGTCTGGTATTGCCCTGCCAGTCCCT
 GTGATTTTCCAACCTTAGCCGGATTTACCACCAGAATCAGAGAGCTGATAAACGCAGG
 GCACAAAAGAAGGCCCGCTTCCAGGATCCGTGTGGCCAAAACAGGCAGTTTCAATGCA
 TACCTGCACAGCAAGCGCAACGGGCTCCTCAACGAGGCGCTGGAGCTGACGGGCACCCCA
 GAAGAGGAGCACATGGGCAAGACCACCTCACTCATCGAGAGCCAGCATATCACCTGCTG
 CACTGCCTGGAACAAACACTAACCACGAGTTTATTGATGAGCAGATGTTTGAAGCAGAAC
 TGCATGGAGAGTTCAATGCAGAACTACCCATCCACAAGAAGTCCCTCACTGTCCAGCCAC
 CCAGGCCCTCACTACCACCTGCTGCTCCCGTCGTAGTAAGAAGACCACACACCTGCCCAAT
 TCTAACCTGCCAGCTACTCGCTGCGCAGCATGCAAGAGCTCAGCAGATCCACATCCAG
 GGCAGTGAGCAGCCCTCCCTCACAACAGTCGCTCCAGCCTTAATTTGAAAGCAGACGAC
 GGACTGAGACAAACTGCAAAACATCCCAGATCACCACAGCCATCATCAGCATCCCCACT
 CCCCCAGCGCTAACCCAGAGGGGAAAGTCGGCCACCCCTGCCAGCCAGGCCCAAC
 ACGAACATTCTTCCATAGCCAGCAATGTTGTCAAGGTCTCCGCCTTGTA

Restriction Sites: Please inquire

ACCN: NM_172198

Insert Size: 5000 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).

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_172198.1 , NP_751948.1
RefSeq Size:	2636 bp
RefSeq ORF:	1911 bp
Locus ID:	3752
UniProt ID:	Q9UK17
Cytogenetics:	1p13.2
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	<p>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. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in <i>Drosophila</i>, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shal-related subfamily, members of which form voltage-activated A-type potassium ion channels and are prominent in the repolarization phase of the action potential. This member includes two isoforms with different sizes, which are encoded by alternatively spliced transcript variants of this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2), also known as the shorter splice variant, lacks an in-frame exon in the 3' coding region, as compared to variant 1. It thus encodes an isoform (2) that is shorter than isoform 1.</p>