

Product datasheet for **SC303560**

KCND1 (NM_004979) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCND1 (NM_004979) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCND1
Synonyms:	KV4.1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004979 edited
AGAGGAGGAGGAGAAGCTCAGGCAGCTCTGCAGAGGGGGCCAGGAGCTCGGGTGTGGTA
CCCCAGCCCCACCGCTGTTGCTGCTCCTGCAGCGGGGACACAGGTGAGGACGCCCGAG
AGAGAGGGGGAGGGGGACCACCTAGCGCTGTCCTCATCCTTCCCTGGTCCAGCCCCCA
CGCCCTAACCCATCCTGGGATAGTCCCCAGGGTCCCCTGACCTTGCCTTCCAGGC
CTCCTTCCAGGGACCCCGCACCTCCCCCTGCCTATGCCACCTTCTCCTATGCCTGGC
TGTGGTTGCTTCTTCTCCTGCTGCCGCTGCTGCTACTGCCACTGCCAGTACACACC
GCCAGCCCTCGGGGTGTGGTTTCCCCAGACCTGCCCAACGGTGGGACCCAGCCTTCT
CCCGGCTCTCCTGCCAGCTTCTGCAAAGCCCAGGAGCCCCCTCCCTGGAGACACACC
CAACTCCCTTTAACACCCACCCCTCTTAATCCCATTTGGGGTTAACCCCTTCTCT
CTATTTAGTCTTCATAGATCCCCTGGGTGCTCTGGGATTGTGCCAACTTCTAACATT
TGAGTCCCGGCCCTTGAATTCCCAGGCCCTTTTCTCCCTGTAGAACTCCTGAGAG
TGTCGACCAGGCTTTGTTGGCCGTCTAGATACCCACCTCCCCAGATAACTCTCAGCCTC
TCAAAAAATAACCCAGCCCCCTGTACCCCTTTAGATACCCCTTCCCCTCTCCAGCCCT
ACTAGGAGGCTCTGGCCTCTCCTTTCTTCCCAGAACTCCTGTAGAGTATAGACACCCCC
CCGGGCTATTCTTGGCAACTCTAGGCAGTCCCAGACACCTTTCCAGCCTTTTACAACCT
CCTGGATCCACAGCCACCCCTCAAGATGCACCAGCTCCCTTTCCAGATCCATGAGGGGG
TCTAACCTCTTATGCTTCCCCTAGAAGTCTTGAGGGTGTGGACAACCCCTCTCACCTGT
CTCAGCCCCTCTAGAACCCCACTTCCAGGCACTCTCAGTCTTTCAAGCACCTTGGT
CCCATTTCTACCCTCTGGATGCCCGAGTCTCCTCTCCACACTGCAAAGGAATTCAGG
CTCTTCTGCCTTCCCTGAGACTCTTGGAGTGCAGAGAATTTCCCACGTGTTTCTTGCC
CCTCTAGACGCCCCAGACACCTCTCAGGCACAGGCTGACTCCTTTAGAATCATCTCAGT
CTCTCTAAACCTSCCTCAGCTCCTTCTTGGCCCCATCCCCACACCCCTTTCTGCTCTT
CTCCATGTCCCCAAGGCCCTTCTCAGTCCCTCAGAACATTGCCAGGCCCTCCTAGGTT
CTGTAATGTCCCCAGACTCCTTCCCATCTCTTAGTTCTTCTCCTGGTTCTCTTGG
CCTCTCTAGACACCCCAAGTTTCTTGGTGGCTCAAGGTGTCTCAAGCCCCCAC
CATCCTGGAGACGCCACATTCTCTAAACGCCACCTACTAAGTCTCCCTGGGCTTGG



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GGAGCGGCACGATGGCGGCAGGCCTGGCCACGTGGCTGCCTTTTCTCGGGCAGCAGCAG
TGGGCTGGCTGCCCTGGCCAGCAACCCTGCCCCGGCACCGGGGTGAAGGCATCTC
GAGGAGATGAGGTTCTGGTGGTGAACGTGAGCGGACGGCGCTTTGAGACTTGAAGAATA
CGCTGGACCGCTACCCAGACACCTTGCTGGGCAGCTCGGAGAAGGAATCTTCTACGATG
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CCTGTGTACTCATATTCACAGGTGAATACCTCCTGCGGCTGTTTGCCGCCCCAGCCGTT
GCCGCTTCTGCGGAGTGCATGAGCCTCATCGACGTGGTGGCCATCCTGCCCTACTACA
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TCTTGGTCATTGCCCTGCCTGTGCCAGTCATTGTGTCCAACCTTAGCCGCATCTACCACC
AGAACCAGCGGGCTGACAAGCGCCGAGCACAGCAGAAGGTGCGCTTGGCAAGGATCCGAT
TGGCAAAGAGTGGTACCACCAATGCCTTCTGTCAGTACAAGCAGAATGGGGGCTTGAAG
ACAGCGGCAAGTGGCGAGGAACAGGCTCTTTGTGTAGGAACCGTTCTGCCTTTGAACAGC
AACATCACCACTTGTGCACTGTCTAGAGAAGACAACGTGCCATGAGTTCACAGATGAGC
TCACCTTCAGTGAAGCCCTGGGAGCCGTCTCGCCGGGTGGCCGACCAGCCGTAGCACCT
CTGTGTCTTCCCAGCCAGTGGGACCCGGAAGCCTGCTGTCTTCTGCTGCCCTCGCAGGG
CCAAGCGCCGCGCCATCCGCCTTGCCAACTCCACTGCCTCAGTCAGCCGTGGCAGCATGC
AGGAGCTGGACATGCTGGCAGGGCTGCGCAGGAGCCATGCCCTCAGAGCCGCTCCAGCC
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CCATTATCAGCATCCCTACCCCTCCTGCCAACACCCAGATGAGAGCCAACCTTCTCCTCC
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TCTTCCCCGAGACTGTCAAGATCTCATCCCTGTGAGGGGTAGGCCTGCTGATTCAGAGGG
TCCTCTTCATTTTTGGGAACTCCTTTCCAAAGCCATATTTTTGGGAGGCAGAGAGGGCA
GGCTTGGGCACCCCTTCTGCCCCCCCCACTGAGAACTATGCAATGGAGTTTCATGAAATG
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CCTGGTGGGAGCTGAAGCACTGGGCTTCCACAGGCCMTGGCCTCCTTGCCTAGCACAC
TGGGACTGGCCCCACTCTCCAGCTGGACTCCTGCATGCTCCTCCCTTGGGCTCTCAGA
TGAAGGCAAAGCTTTGATCCGACATCTGAGCTTAGCCTAAGAAGGAGAGTTGAGATTTT
CTCCTCCCTCTGGCTGGGATATGGAGCTTTGGAGTTTCAAGAGAAGAAACCCTCACCTCT
GATCTGGCCTCTACGAGAGGTCCTCATCTCCATCTGGCCCAACAATCCAGATTCTGAA
GCTTGGAAATGCAAACACAGGCTTCATGGGCTGTGGCCTCTGCAGCGACCTGCCATCCCCA
GGCCTTGCTGAGGGGTGAGGCTGCCTCTCCCAACACACACTCAGATAGCACAAATTTCTA
CCATCCCTTCCCTGGCTGCTGGAAATGGACCCGCAACCCTGTCTCTGCTGGGCCCC
AGCAAACCTTAGCAATAGCAGCTGCTGCCGTGTCATTATGCAAAGCCTCTGACCAGTTT
CTGAGCATTACATCTGCCCTAATCAGAGGGGCCACCTCTAACTCCTCCTCCTCCTC
TTCTCCTCTGGTTTGGCTCCTCCCTGGTGGGCTGGAGTCTGGACTGGCTGAGATAAGAG
CCTGGCAACCAGAAAAGCTGGGCTGTATTTGGAGATCATGGGCTGATTCCATGTCTTG
GGCAACAGTCCAGAAGCATCAGGGGCTCCGGCCTGGGATGTTTCTGAACTTTGGGAGTTA
TAGGAGACAGGAGGAACTTCTCCTCCTCCTCCTCCCTACAATTCCTTTTACATATTCC
TTTCTTCCCTCTGGGTGACCTTCCAAAACCTGCTCTCAGGCTGAAATCTGGCATCA
TCTCAGTTCCCTGTCCCAGCACTGTCCCATGGAGCTGGTGGCTGACAAAAGATGTAGT

TTCCATCAGTCAATAAACCTGAGAGGAGAGATGAAAAAAAAAAAAAAAAAGAAAAAAAA
 AAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_004979
Insert Size:	4800 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_004979.4.
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:	<u>NM_004979.4</u> , <u>NP_004970.3</u>
RefSeq Size:	4720 bp
RefSeq ORF:	1944 bp
Locus ID:	3750
UniProt ID:	<u>Q9NSA2</u>
Cytogenetics:	Xp11.23
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	This gene encodes a multipass membrane protein that comprises the pore subunit of the voltage-gated A-type potassium channel, which functions in the repolarization of membrane action potentials. Activity of voltage-gated potassium channels is important in a number of physiological processes, among them the regulation of neurotransmitter release, heart rate, insulin secretion, and smooth muscle contraction. [provided by RefSeq, Aug 2013]