

Product datasheet for **SC209953**

KCNA5 (NM_002234) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	KCNA5 (NM_002234) Human 3' UTR Clone
Symbol:	KCNA5
Synonyms:	ATFB7; HCK1; HK2; HPCN1; KV1.5; PCN1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_002234
Insert Size:	829 bp
Insert Sequence:	<p>>SC209953 3'UTR clone of NM_002234</p> <p>The sequence shown below is from the reference sequence of NM_002234. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTGGACACCAGCCGGGAAACAGATTTGTGAAAGGAGATTCAAGCAGACTGGTGGCAGTGGAGTAGGGAA
TGGGAGGCTTGCTGAACATGGATATCTACATTATACCGCAGAGTATTTGAAGTCACACTGTAACTCTAG
TCTACCCCTCTCCTTTCACTCCTTTCTCCCTCCCTCGATCCCCCATTTTCTCTATTCTTTCCATGAC
ACCCAAGGGTCGCCTATTTTTAAAAAGTACCACATTCCATGACGCAGGAGCTGTGAAATGGTGAGCGC
TGTGAGATGGATGTATTTGTAGCCAGTCTCTATACCCAGCAGAGGGATAACCCAAACAAAAATGACTC
TAAATAGCCCAGATCCCAAGAGATTATGTAACCTCCTCCATCCATGTGTTCCAAATTTGCTTTACATATG
ATTGTATTTGTGTATAGGGGAAATATTATTTTATGCCTGGTAAGTGGCTTTTGTACTGTAGTTTCAG
ATAGAGATATTTGGGTATATTTCAAGATACATGTTGTATTTATGGAAGAAAGAGTTGTCCTGATGTT
TTTCTGTGTTACTTATATTAGAGTCAGAGATCTTGGTATGGGCTGTTCTGTTTCTGTGTCTCCAAGCC
TCTGTCTTTTCTGGGATGTGGTATTGGTGCTTTGTGTCTAGGGCAGAGTATGTTCTTGAAGAAAGGCAA
ATCTGACTTTTCTGTGCGCCTTAAACAATTCTTGAACCTTTCTTCAAAAAGCATTTTAATGATATTGG
AGGAATACTTCTGATAATTTATTGTCTTTATTTTATCCAGGAAATAAAAGTTACCTTGTGAGGCAA
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_002234.4</u>
Summary:	Potassium 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 Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class, the function of which could restore the resting membrane potential of beta cells after depolarization and thereby contribute to the regulation of insulin secretion. This gene is intronless, and the gene is clustered with genes KCNA1 and KCNA6 on chromosome 12. Defects in this gene are a cause of familial atrial fibrillation type 7 (ATFB7). [provided by RefSeq, May 2012]
Locus ID:	3741
MW:	32.7