

## Product datasheet for **SC214345**

### **KCNA3 (NM\_002232) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	KCNA3 (NM_002232) Human 3' UTR Clone
Symbol:	KCNA3
Synonyms:	HGK5; HLK3; HPCN3; HUKIII; KV1.3; MK3; PCN3
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_002232
Insert Size:	1436 bp



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**Insert Sequence:** >SC214345 3' UTR clone of NM\_002232  
The sequence shown below is from the reference sequence of NM\_002232. The complete sequence of this clone may contain minor differences, such as SNPs. **Red**=Cloning site  
**Blue**=Stop Codon

CAATTGGCAGAGCTCAGAATTCAA**CGGATCGC**

CCAACCTTGTGTCAACATCAAAAAGATATTCACCGATGTT**TAAT**TATGTGATACAAGTGACATGCTGTGC  
TCAGTATTGTGTGGAACGTGCCCCCTTGGTCTGCCTATGCCCTTGTGTTTATACATTTCCAGACCATTTCAT  
CAAGGAAAGGACCTGAAGAAGTGAAAGCACACTTCATTCTCCCTCTCCCTGCTGCTTCACTACTGAAACA  
GGTGCCTGTTTTGCAAGTGGGCTGCATTCTCTCAGCTCTCCTTTTCCCTCTTACCCTCTCTCTTAACA  
TTGTAACAACAGACTTACGTTAAACTTCATTTCTAGTACACGCCCTATTTAAAAAGAGCAGTACATCC  
TGGGAGGAAATGAACTAAAGAACAGTTAGAGTAACTGTTTAACTCAGAATTTTAAAGGCAGTTGTTTC  
TTTCTAAGCACATCAATTCGTAGTAAATGATGCTTCGGTTTGATGGACCTTTCAACGTTATTTATTGAA  
TATGTATTTTCGGTTGCCTACCCTGTAGATATGTGGATGAAGAGCTAACTAGAATAATGACTTGTAAACC  
CACCATGAGTTATTTGGTTTTGACTTAAATTCCTATTTGAATCCCCTTTCCCGGAATTTAAGTGTCTC  
TACAACCTTTGAATAAAGGGAAATGCCCAAGATGTCCTGATCTGACTAATTAGTTTAAATCTTTCCGGGCTT  
GCTAAGCATTTCTAAAGCATTAGACTAACAGATTCTGTGAAGTTCTGTGCATATGTCCCAGCCCCAACA  
ACTATCAAAGTCTAGAAACAGATGTTTTAGTGTGCTGAGAGAAACAAAAATTTCTAATGCATCTGA  
GAGATAAGCTTCGGCAGTATCACAAGAAGATTAAGTGGCAGACACCCCTTCCAGCGGAAGTTACTAATT  
CGGACCTGACTGATGCAGTTCCATAGCAACCCATGTTTCTGGGAAACCCGAAAAAGGTTGTCATGGCA  
TCTCTTGCTCTAGCCCCACCTCCAGCCCCGCGTTTCCACAGTAACCTTTCCAGATGGTTCCTACT  
TAAATGATTTTCATAAGGAAAACCACTGTTTGAATAAGCCGCACAAAAATAAAGTTAAGTCTGAGACTCT  
AAGGAGGTGAAATGAATCCCAAATGCATTTTTTAACTATGAAAATCATTATGTCATTCCATAATGACTGA  
ATCAAGGAGGAAAAATATGGTGTGTTGGAATGTTAGATATTAACCACAATAAGGCATGATCTGGATTAATG  
CCATTTATTAGGCAATAATTTTTAAAGATGCTTCTCTACAGTTTTCTTCTCCAAGAAGTTTCAAGCCAA  
CAAATGAAATTTAAAGCAAATGTAAGTGTCTGTACATAAGCAAATGAGAGATTCGATCAGTGTGCC  
TGAAACCTTACTACAAGGACCTTCAGGCTTTCTCT

**ACGCGT**AAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCG

**Restriction Sites:** SgfI-MluI

**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:** [NM\\_002232.3](#)

**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, members of which allow nerve cells to efficiently repolarize following an action potential. It plays an essential role in T-cell proliferation and activation. This gene appears to be intronless and it is clustered together with KCNA2 and KCNA10 genes on chromosome 1. [provided by RefSeq, Jul 2008]

**Locus ID:**

3738