

Product datasheet for **SC305352**

KCNA7 (NM_031886) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCNA7 (NM_031886) Human Untagged Clone
Tag: Tag Free
Symbol: KCNA7
Synonyms: HAK6; KV1.7
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_031886 edited
 ATGGAGCCGCGGTGCCCGCCGCTGCGGCTGCTGCGAGCGGCTGGTCTCAACGTGGCC
 GGGCTGCGCTTCGAGACGCGGGCGCGCACGCTGGGCCGCTTCCCGGACACTCTGCTAGGG
 GACCCAGCGCGCCGCGCGGCGCTTCTACGACGACGCGCGCGAGTATTTCTTCGACCGG
 CACCGGCCAGCTTCGACGCCGTGCTCTACTACTACCAGTCCGGTGGGCGGCTGCCGCGG
 CCGGCGCACGTGCCGCTCGACGTCTTCTGGAAGAGGTGGCTTCTACGGGCTGGGCGCG
 GCGGCCCTGGCACGCTGCGCGAGGACGAGGGCTGCCCGTGCCGCCGAGCGCCCCCTG
 CCCC GCCGCGCTTCGCCCAGCTGTGGCTGCTTTTCGAGTTCCCGAGAGCTCTCAG
 GCCGCGCGCTGCTCGCCGTAGTCTCCGTGCTGGTCATCCTCGTCCATCGTCGTCTTC
 TGCTCGAGACGCTGCCTGACTTCCGCGACGACCGGACGCGACGGGGCTTGCTGCTGCA
 GCCGACGCGGCCGTTCCCGCTCCGCTGAATGGCTCCAGCAAATGCCTGGAAATCCA
 CCCC GCCCTGCCCTCAATGACCCGTTCTTCGTGGTGGAGACGCTGTGATTTGTTGGTTC
 TCCCTTGAGCTGCTGGTACGCCCTCTGGTCTGTCCAAGCAAGGCTATCTTCTCAAGAAC
 GTGATGAACCTCATCGATTTTGTGGCTATCCTTCCCTACTTTGTGGCACTGGGCACCGAG
 CTGGCCCCGAGCGAGGGGTGGGCCAGCAGGCCATGTCACTGGCCATCCTGAGAGTCATC
 CGATTGGTGCCTGCTTCCGCATCTTCAAGCTGTCCCGGCACTCAAAGGGCTGCAAATC
 TTGGGCCAGACGCTTCGGGCCTCCATGCGTGAGCTGGGCTCCTCATCTTTTCCCTTTC
 ATCGGTGTGGTCTCTTTCCAGCGCCGCTACTTTGCCGAAGTTGACCGGGTGGACTCC
 CATTTCCTAGCATCCCTGAGTCTTCTGGTGGGCGGTAGTACCATGACTACAGTTGGC
 TATGGAGACATGGCACCCGCTCACTGTGGGTGGCAAGATAGTGGGCTCTCTGTGTGCCATT
 GCGGGCGTGTGACTATTTCCCTGCCAGTGCCCGTCAATTGTCTCAATTTGAGTACTTT
 TATCACCGGGAGACAGAGGGCGAAGAGGCTGGGATGTTACGCCATGTGGACATGCAGCCT
 TGTGGCCCACTGGAGGGCAAGGCCAATGGGGGGCTGGTGGACGGGAGGTACCTGAGCTA
 CCACCTCACTCTGGGCACCCCCAGGGAACACCTGGTCACCGAAGTGTGA

Restriction Sites: Please inquire



[View online »](#)

ACCN:	NM_031886
Insert Size:	1400 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 open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_031886.2</u> , <u>NP_114092.2</u>
RefSeq Size:	4372 bp
RefSeq ORF:	1371 bp
Locus ID:	3743
UniProt ID:	<u>Q96RP8</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene 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. The gene is expressed preferentially in skeletal muscle, heart and kidney. It is a candidate gene for inherited cardiac disorders. [provided by RefSeq, Jul 2008]