

Product datasheet for **SC122143**

KCNH7 (NM_173162) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNH7 (NM_173162) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNH7
Synonyms:	ERG3; HERG3; Kv11.3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_173162, the custom clone sequence may differ by one or more nucleotides

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ATGCCTGTGCGCAGGGGCATGTGGCACCACAAAATACATTTCTGGGGACCATCATTGCGAAATTTGAAG
GGCAAAAATAAAAAATTTATCATTGCAAAATGCCAGAGTGCAGAAGTGTCCATCATTATTGCAACGATGG
GTTCTGTGAGATGACTGGTTTCTCCAGGCCAGATGTCATGCAAAAAGCCATGCACCTGCGACTTTCTCCAT
GGACCCGAGACCAAGAGGCATGATATTGCCAAAATGCCAGGCATTGCTGGGGTCAGAAGAGAGGAAAAG
TGGAGGTCACCTACTATCACAAAATGGGTCCACTTTTATTTGTAACACTCACATAAATCCAGTGAAAAA
CCAAGAGGGCGTGGCTATGATGTTTCATCATTAAATTTTGAATATGTGACGGATAATGAAAACGCTGCCACC
CCAGAGAGGGTAAACCAATATTACCAATCAAACTGTAAACCGGAAATTTTTGGGTTCAAATTCCTG
GTCTGAGAGTTCTCACTTACAGAAAGCAGTCTTACCACAAGAAGACCCCGATGTGGTGGTCATCGATTC
ATCTAAACACAGTGATGATTCAGTAGCCATGAAGCATTAAAGTCTCTACAAAAGAAAGCTGCAGCCCC
TCTGAAGCAGATGACACAAAAGCTTTGATACAGCCCAGCAAATGTTCTCCCTTGGTGAATATATCCGGAC
CTTTGACCATTCTCTCCAAAAGGCAATGGGACCGACTCTACCCTGACATGCTGCAGTCAAGTCCCA
GCTGTCCCATCCAGATCAAGGGAAAGCTTATGTAGTATACGGAGAGCATCTTCGGTCCATGATATAGAA
GGATTGCGCGTCCACCCAAGAACATATTTAGAGACCGACATGCCAGCGAAGGGCCTTTTAAATCATATCA
AGTCAAGCCTCCTGGGATCCACATCAGATTCAAACCTCAACAAATACAGCACCATTAACAAGATTCACA
GCTCACTCTGAATTTTTAGAGGTCAAACTGAGAAAAAGAATTCATCACCTCCTTCTCAGATAAAACC
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GAGCAGATGTCCTACCTGAATACAACTGCAGACACCACGCATCAACAAGTTTACGATATTGCACTACAG
CCCTTTCAAGGCAGTCTGGGACTGGCTTATCCTGCTGTTGGTCAATACACTGCTATATTTACTCCCTAC
TCTGCAGCCTTCTCCTCAATGACAGAGAAGAACAGAAAAGACGAGAATGTGGCTATTCTGTAGCCCTT
TGAATGTGGTAGACTTGATTGTGGATATTATGTTTATCATAGATATTTTAAATAAACTTCAGAACAACATA
TGTAATCAGAATGAAGAAGTGTAAGTGATCCCGCAAAATAGCAATACACTACTTCAAAGGCTGGTTC
CTGATTGACATGGTTGCAGCAATTCCTTTTACTGCTGCTGATTTTTGGATCAGGTTCTGATGAGACAACAA
CATTAAATGGTCTTTTGAAGACTGCCCGACTCCTCCGCTTGTGCGCGTGGCCAGGAACTGGATCGATA
TTCAGAATATGGCGTCTGTTCTAATGCTCTTAATGTGCATCTTGGCCTGATTGCTCACTGGCTGGCT
TGCATTTGGTATGCGATTGGGAATGTAGAAAGGCCTTACCTGACTGACAAAATCGGATGGTTGGATTCTT
TAGGACAGCAAATGGGAAACGTTACAATGACAGTGACTCAAGTCTGGACCATCCATTAAGACAATA
CGTCACAGCACTTATTTTACCTTCAGCAGTTTAAACCAGTGTAGGATTCGGGAATGTGTCTCCTAACACG
AATTCGGAGAAAATCTTTTCAATTTGTGTATGTTGATTGGCTCACTAATGTATGCAAGCATTTTGGGA
ATGTATCTGCAATTATCCAAAGACTATACTCGGAACTGCCAGGTACCACATGCAGATGCTGCGAGTAAA
AGAGTTCATTGCTTTACCAAATCCCCAACCTCTGAGGCAACGCTTGAAGAATTTCCAGCAGCGCA
TGGACTTACCAATGGCATTGACATGAACATGGTATGTATGCTGTTTTCCAAAATGAAAGTGCCCGCAG
GCATTATAGTGATAGCCAAAATGGAATAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_173162 unedited NGGCCCCGACGGAATTTGTATACGACTCATATAGGGCGGCCGCGATTCCANATCTGGTACCG ATATCAAGCTTGTGCGACTCTAGAAGTGGTGCTAATGGGAAGAGAATTCTGGTTTCAAAG AGGATGCTCTGCCACAAAGAGCGGCTCGCGCGCTGGCCTGGGCTCTAGCCGAGGAGAGAT CCCGGGAGAACTCCAGAGCTCCGGGGGAGCGCTCCTCGGAAGACCGGGGCCAACATGCCT GTGCGCAGGGGGCATGTGGCACCACAAAATACATTTCTGGGGACCATCATTGGAAATTT GAAGGGCAAAAATAAAAAATTTATCATTGCAAATGCCAGAGTGCAGAACTGTGCCATCATT TATTGCAACGATGGTTCTGTGAGATGACTGGTTTCTCCAGGCCAGATGTCATGCAAAAAG CCATGCACCTGCGACTTTCTCCATGGACCCGAGACCAAGAGGCATGATATTGCCCAAATT GCCCAGGCATTGCTGGNGTCAGAAGAGAGGAAAGTGGAGGTCACCTACTATCACAAANAT GGGTCCACTTTTTATTGTAACTCACANTATTCCAGTGAANAACCAAGAGGGCGTGGCT ATGATGTTTCATTAATTTTGAATATGTGACGGATAATGAAAACGCTGCCACCCAGAG AGGGTAAACCCCATATTACCAATCAAAAAGTAAACCGGAAATTTTTGGTTCAAATTC CTGGTCTGAGAGTTCTCACTTACAGAAAGCAGTCTTACCCACAGAAGACCCCGATGTGG TGGTCATCGATTCTAAACACAGTGATGATTGAGTCCATGAAGCATTTTAAGTCTC CTACAAAAGAAAGCTGCAGCCCCTCTGAAGCAGATGACACAAAGCTTTGATACAGCCAG CAATGTTCTCCCTTGGC
Restriction Sites:	Please inquire
ACCN:	NM_173162
Insert Size:	2500 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).
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_173162.1 , NP_775185.1
RefSeq Size:	2488 bp
RefSeq ORF:	2199 bp
Locus ID:	90134
UniProt ID:	Q9NS40
Cytogenetics:	2q24.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Ion Channels: Other, Transmembrane

Gene Summary:

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. This gene encodes a member of the potassium channel, voltage-gated, subfamily H. This member is a pore-forming (alpha) subunit. There are at least two alternatively spliced transcript variants derived from this gene and encoding distinct isoforms. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) lacks an internal in-frame coding exon and several 3' terminal exons but contains an alternate 3' terminal segment, as compared to variant 1. Isoform 2 is shorter and has a distinct C-terminus, as compared to isoform 1.