

Product datasheet for **SC337546**

KCNH6 (NM_001278920) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNH6 (NM_001278920) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNH6
Synonyms:	ERG-2; ERG2; hERG-2; HERG2; Kv11.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001278920, the custom clone sequence may differ by one or more nucleotides

```

ATGTTTCATTCTCAACTTCGAGGACCTGGCCAGCTCCTGGCCAAGTGCAGCAGCCGAGCTTGTCCCAGC
GCCTGTTGTCCCAGAGCTTCTGGGCTCCGAGGGCTCTCATGGCAGGCCAGGCGGACCAGGGCCAGGCAC
AGGCAGGGGCAAGTACAGGACCATCAGCCAGATCCCACAGTTCAGCTCAACTTCGTGGAGTTCACTTG
GAGAAGCACCCGCTCCAGCTCCACCACGGAGATTGAGATCATCGCGCCCCATAAGGTGGTGGAGCGGACAC
AGAACGCTCACTGAGAAGGTCAACCAGGTCTGTCCCTGGGCGCGGATGTGCTGCCGGAGTACAAGCTGCA
GGCGCCGCGCATCCACCCTGGACCATCCTGCACTACAGCCCCTCAAGGCCGTGTGGGACTGGCTCATC
CTGCTGTGGTCACTACACGGTGTCTTACGCCCTACTCAGCCGCTTCTGCTCAGCGATCAGGACG
AATCACGGCGTGGGGCTGCAGCTATACCTGCAGTCCCCTCACTGTGGTGGATTCATCGTGACATCAT
GTTTCGTCGTGGACATCGTCATCAACTCCGCACCACCTATGTCAACACCAATGATGAGGTGGTCAAGCC
CCCCGCCGCATCGCCGCTCACTACTTCAAGGGTGGTTTCTCATTGACATGGTGGCCGCCATCCCTTTCG
ACCTCCTGATCTCCGCACTGGTCCGATGAGACCACAACCTGATTGGGCTATTGAAGACAGCGCGGCT
GCTGCGGCTGGTGCAGTGCAGCAGGAGCTGGACCGCTACTCTGAGTATGGGGCGGCTGTGCTTCTTGG
CTCATGTGCACCTTCGCGCTCATAGCGCACTGGCTGGCCTGCATCTGGTACGCCATCGGCAATGTGGAGC
GGCCCTACCTAGAACACAAGATCGGCTGGCTGGACAGCCTGGGTGTGCAGCTTGGCAAGCGCTACAACGG
CAGCGACCCAGCCTCGGGCCCCCTCGGTGCAGGACAAGTATGTCACAGCCCTCTACTTCACCTCAGCAGC
CTCACCAGCGTGGGCTTCGGCAATGTCTCGCCCAACCAACTCCGAGAAGGTCTTCTCCATCTGCGTCA
TGCTCATCGGCTCCCTGATGTACGCCAGCATCTTCGGAAACGTGTCCGCGATCATCCAGCGCCTGTACTC
GGGCACCGCGCTACCACACGCAGATGCTGCGTGTCAAGGAGTTCATCCGCTTCCACCAGATCCCCAAC
CCACTGCGCCAGCGCTGGAGGAGTATTTCCAGCACGCCTGGTCTACACCAATGGCATTGACATGAACG
CGGTGCTGAAGGGCTTCCCGAGTGCCTGCAGGCTGACATCTGCCTGCACCTGCACCGCGCACTGTGCA
GCACTGCCAGCTTTCAGCGCGCCGGCAAGGGTGCCTGCGCGCGCTAGCCGTCAGGTTCAAGACCACC
CACGCGCCGCTGGGACACGCTGGTGCACCTCGGCGACGTGCTCTCCACCCTCTACTTCATCTCCCGAG
GCTCCATCGAGATCCTGCGCGACGACGTGGTCTGGCCATCCTAGGAAAGAAATGACATCTTTGGGAACC
CGTCAGCCTCCATGCCAGCCAGGCAAGTCCAGTGCAGACGTGCGGGCTCTGACCTACTGCGACCTGCAC
AAGATCCAGCGGGCAGATCTGCTGGAGGTGCTGGACATGTACCCGGCCTTTCGGGAGAGCTTCTGGAGTA
AGCTGGAGGTACCTTCAACCTGCGGGACGACGCGGGGCTCCTCACTCATCCCCCGACAGGCTCCTGG
CAGCCAAGACCACCAAGGTTTCTTCTCAGTGACAACCAGTCAAGTGCAGCCCTCCCCTGAGCATCTCA
GATGCATCTGGCCTCTGGCCTGAGCTACTGCAGGAAATGCCCCAAAGGCACAGCCCCAAAGCCCTCAGG
AAGACCCAGATTGCTGGCCTCTGAAGCTGGGCTCCAGGCTAGAGCAGCTCCAGGCCAGATGAACAGGCT
GGAGTCCCAGCTGCTCCTCAGACCTCAGCCGCATCTTGCAGCTCCTCCAGAAGCCCATGCCCCAGGGCCAC
GCCAGTACATTTGGAAGCCCCGCTCCAATGACCTGGCCTTGGTTTCTATAGCTCGGAGACGACGA
GTCCAGGGCCAGGCTGCCCCAGGGCTTCTGCCTCCTGCACAGACCCCAAGCTATGGAGACTTGGATGA
CTGTAGTCAAAGCACAGGAACCTCCTCCCCAGGATGCCTCACCTGGCTGTGGCAACGGACAAAACCTCTG
GCACCATCCTCAGAACAGGAACAGCCTGAGGGGCTCTGGCCACCCTAGCCTCACCTCTACATCCCCTGG
AAGTACAAGGACTCATCTGTGGTCCCTGCTTCTCCTCCCTCCCTGAACACCTTGGCTCTGTTCCTCAAGCA
GCTGGACTTCCAGAGACATGGCTCAGATCCTGGATTGACAGGGAGTTGGGGCCACTGA
    
```

Restriction Sites: SgfI-MluI

ACCN: NM_001278920

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:	<u>NM_001278920.1</u> , <u>NP_001265849.1</u>
RefSeq Size:	3650 bp
RefSeq ORF:	2508 bp
Locus ID:	81033
UniProt ID:	<u>Q9H252</u>
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	<p>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. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and 5' coding region, uses a downstream start codon, and lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting isoform (4) has a shorter N-terminus and is shorter, compared to isoform 1.</p>