

## Product datasheet for **SC315257**

### KCNH7 (NM\_033272) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNH7 (NM\_033272) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** KCNH7  
**Synonyms:** ERG3; HERG3; Kv11.3  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_033272 edited  
 ATGCCTGTGCGCAGGGGCGATGTGGCACCACAAAATACATTTCTGGGGACCATCATTCCG  
 AAATTTGAAGGGCAAAAATAAAAAATTTATCATTGCAAATGCCAGAGTGCAGAACTGTGCC  
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TTAAAACAAGACAGTGATCTCTCTTTAGAGCTTACCTGCGGCAAAAGAAAACCTTACGTT
CATCCAATTAGGCATCCTTCTTTGCCAGATTCATCCCTAAGCACTGTAGGAATCGTGGGT
CTTCATAGGCATGTTTCTGATCCTGGTCTTCCAGGGAAATAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_033272
- Insert Size:** 4300 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_033272.2, NP_150375.2</u>
<b>RefSeq Size:</b>	4225 bp
<b>RefSeq ORF:</b>	3591 bp
<b>Locus ID:</b>	90134
<b>UniProt ID:</b>	<u>Q9NS40</u>
<b>Cytogenetics:</b>	2q24.2
<b>Domains:</b>	cNMP, ion_trans
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Ion Channels: Other, Transmembrane
<b>Gene Summary:</b>	<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. There are at least two alternatively spliced transcript variants derived from this gene and encoding distinct isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>