

## Product datasheet for **SC327226**

### **KCNQ5 (NM\_001160134) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNQ5 (NM_001160134) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNQ5
Synonyms:	Kv7.5; MRD46
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001160134, the custom clone sequence may differ by one or more nucleotides

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ATGCCCGCCACCACGCGGGAGGAGAGGAGGGCGCGCCCGGGCTCTGGGTGAAGAGC
GGCGCAGCGGGCGGGCGGGCGGGGGCGCTTGGGCAGCGGCATGAAGGATGTGGAG
TCCGGCCGGGGCAGGGTGTCTGTAAGTCCGGCAGCCGAGGGGCGACGGCCTGCTACTG
CTGGGCACCCGCGCGCCACGCTCGTGGCGGGCGGGTGGCTGAGGGAGAGCCGCCGG
GGCAAGCAGGGGGCCCGGATGAGCCTGCTGGGGAAGCCGCTCTTTACACGAGTAGCCAG
AGCTGCCGGCGCAACGTCAAGTACCGGGGGTGCAGAAGTACCTGTACAACGTGCTGGAG
AGACCCCGCGGGTGGGCTTTCATCTACCACGCTTTCGTTTTTCTCCTTGCTTTGGTTGC
TTGATTTTGTGAGTGTCTTACCATCCCTGAGCACACAAAATTGGCCTCAAGTGCCTC
TTGATCCTGGAGTTCGTGATGATTGTCGCTTTGGTTTGGAGTTCATCATTGCAATCTGG
TCTGCGGGTGTGTTGTCGATATAGAGGATGGCAAGGAAGACTGAGGTTTGTCTGAAAG
CCCTTCTGTGTTATAGATACCATTGTTCTTATCGCTTCAATAGCAGTTGTTTCTGCAAAA
ACTCAGGGTAATATTTTGGCACGTCTGCACTCAGAAGTCTCCGTTTCTACAGATCCTC
CGCATGGTGCATGGACCGAAGGGGAGGCACTTGGAAATTAAGGGTTCAGTGGTTTAT
GCTCACAGCAAGGAATTAATCACAGCTTGGTACATAGGATTTTTGGTTCTATTTTTTCCG
TCTTTCCTTGCTATCTGGTGGAAAAGGATGCCAATAAAGAGTTTTCTACATATGCAGAT
GCTCTCTGGTGGGGCACAATTACATTGCAACTATTGGCTATGGAGACAAAACCTCCCTA
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CTTCTGCCGGCATTCTTGGCTCAGGTTTTGCATTAAGTACAAGAACAACACCCGCCAG
AAACACTTTGAGAAAAGAAGGAACCCAGCTGCCAACCTCATTAGTGTGTTTGGCGTAGT
TACGCAGCTGATGAGAAATCTGTTTCCATTGCAACCTGGAAGCCACACTGAAGGCCTTG
CACACTGCAGCCCTACCAAGAAAAGAACAAGGGGAAGCATCAAGCAGAATTATGAATTT
CATGTTGCAAAAACGGAAGTTTAAAGGAAACATTAGTCCATATGATGTAAGAAAGATGTCATT
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GTTGATCAAATCTTGGAAAAGGGCAAATCACATCAGATAAGAAGAGCCGAGAGAAAAATA
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AAACAGGTACAGTCCATAGAATCCAAGCTGGACTGCCTACTAGACATCTATCAACAGGTC
CTTCGAAAGGCTCTGCCTCAGCCCTCGCTTTGGCTTTCATTCCAGATCCCACCTTTTGA
TGTGAACAGACATCTGACTATCAAAGCCCTGTGGATAGCAAAGATCTTTCGGGTTCCGCA
CAAACAGTGGCTGCTTATCCAGATCAACTAGTCCAACATCTCGAGAGGCTGCAGTTC
ATTCTGACGCCAAATGAGTTCAGTGCCAGACTTCTACGCGCTTAGCCCTACTATGCAC
AGTCAAGCAACACAGGTGCCAATTAGTCAAAGCGATGGCTCAGCAGTGGCAGCCACCAAC
ACCATTGCAAACCAAATAAATACGGCACCAAGCCAGCAGCCCCAACACTTTACAGATC
CCACCTCTCTCCAGCCATCAAGCATCTGCCAGGCCAGAACTCTGCACCCTAACCTT
GCAGGCTTACAGGAAAGCATTCTGACGTACCACCTGCCTTGTGCTCCAAGGAAAAT
GTTCAGTTGCACAGTCAAATCTCACCAGGACCGTCTATGAGGAAAAGCTTTGACATG
GGAGGAGAACTCTGTTGTCTGTCTGTCCATGGTGCCGAAGGACTTGGGCAAATCTTTG
TCTGTGCAAAACCTGATCAGGTCGACCGAGGAAGTGAATATACAACCTTTCAGGGAGTGA
TCAAGTGGCTCCAGAGGCAGCCAAGATTTTTACCCCAAATGGAGGGAATCCAAATGTTT
ATAACTGATGAAGAGGTGGGTCCCGAAGAGACAGAGACAGACTTTTGTGCGCCACCG
CAGCCTGCCAGGGAAGCTGCCTTTGCATCAGACTCTTAAGGACTGGAAGGTACAGATCA
TCTCAGAGCATTGTAAAGGCAGGAGAAAGTACAGATGCCCTCAGCTTGCCTCATGTCAA
CTGAAA

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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001160134

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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><a href="#">NM_001160134.1</a></u> , <u><a href="#">NP_001153606.1</a></u>
<b>RefSeq Size:</b>	6265 bp
<b>RefSeq ORF:</b>	2469 bp
<b>Locus ID:</b>	56479
<b>UniProt ID:</b>	<u><a href="#">Q9NR82</a></u>
<b>Cytogenetics:</b>	6q13
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>Gene Summary:</b>	<p>This gene is a member of the KCNQ potassium channel gene family that is differentially expressed in subregions of the brain and in skeletal muscle. The protein encoded by this gene yields currents that activate slowly with depolarization and can form heteromeric channels with the protein encoded by the KCNQ3 gene. Currents expressed from this protein have voltage dependences and inhibitor sensitivities in common with M-currents. They are also inhibited by M1 muscarinic receptor activation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]</p> <p>Transcript Variant: This variant (5) lacks three alternate in-frame exons in the central coding region, compared to variant 4. The resulting isoform (5) lacks an internal segment, compared to isoform 4. 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>