

Product datasheet for **SC327675**

KCNQ5 (NM_001160130) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNQ5 (NM_001160130) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNQ5
Synonyms:	Kv7.5; MRD46
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001160130, the custom clone sequence may differ by one or more nucleotides

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ATGCCCCGCCACCACGCGGGAGGAGAGGGCGCGCCCGGGCTCTGGGTGAAGAGCGGCGCAGCGG
CGGCGCGGGCGGGGGGGCGCTTGGGCAGCGGCATGAAGGATGTGGAGTCCGGCCGGGCAGGGTGCT
GCTGAACTCGGCAGCCCGCAGGGGCGACGGCCTGCTACTGCTGGCACCCGCGCGCCACGCTCGGTGGC
GGCGGCGGTGGCCTGAGGGAGAGCCGCCGGGCAAGCAGGGGGCCGGATGAGCCTGCTGGGAAGCCGC
TCTCTTACACGAGTAGCCAGAGCTGCCGCGCAACGTC AAGTACCGGCGGGTGCAGAACTACCTGTACAA
CGTGCTGGAGAGACCCCGCGGCTGGGCGTTCATCTACCACGCTTTCGTTTTTCTCCTTGTCTTTGGTTGC
TTGATTTTGTCA GTTTTTCTACCATCCCTGAGCACACAAAATTGGCCTCAAGTTCCTCTTGATCTGG
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CGTGTGATCAAATTTGGAAAAGGGCAAATCACATCAGATAAGAAGAGCCGAGAGAAAATAACAGCAG
AACATGAGACCACAGACGATCTCAGTATGCTCGGTGGGTGTC AAGTTGAAAAACAGGTACAGTCCAT
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GCTTTGGCTTCAATCCAGATCCCACCTTTTGAATGTGAACAGACATCTGACTATCAAAGCCTGTGGATA
GCAAAGATCTTTCGGGTTCCGCACAAAACAGTGGCTGTTATCCAGATCAACTAGTGCCAACATCTCGAG
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CACAGTCAAGCAACACAGGTGCCAATTAGTCAAAGCGATGGCTCAGCAGTGGCAGCCACCAACACCATTG
CAAACCAATAAATACGGCACCAAGCCAGCAGCCCAACAACCTTACAGATCCCACCTCCTCTCCCAGC
CATCAAGCATCTGCCAGGCCAGAACTCTGCACCCTAACCTGCAGGCTTACAGGAAAGCATTCTGAC
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CTATGAGGAAAAGCTTTGACATGGGAGGAGAAACTCTGTTGTCTGTCTGCCATGGTGGCGAAGGACTT
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TGCTTTGTCATCAGACTCTAAGGACTGGAAGGTACAGTATCTCAGAGCATTGTAAGGCAGGAGAA
AGTACAGATGCCCTCAGCTTGCCTCATGTCAAACCTGAAATAA
    
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Restriction Sites: Please inquire
ACCN: NM_001160130
Insert Size: 2800 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).
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_001160130.1</u> , <u>NP_001153602.1</u>
RefSeq Size:	6568 bp
RefSeq ORF:	2772 bp
Locus ID:	56479
UniProt ID:	<u>Q9NR82</u>
Cytogenetics:	6q13
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	<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 (2) lacks two alternate in-frame exons in the central coding region, compared to variant 4. The resulting isoform (2), also known as II, 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>