

## Product datasheet for **MR222658**

### **Kcnq5 (NM\_001160139) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcnq5 (NM_001160139) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnq5
Synonyms:	7730402H11; 9230107O05Rik; AA589396; D1Mgi1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222658 representing NM\_001160139  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
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**Protein Sequence:** >MR222658 representing NM\_001160139  
 Red=Cloning site Green=Tags(s)

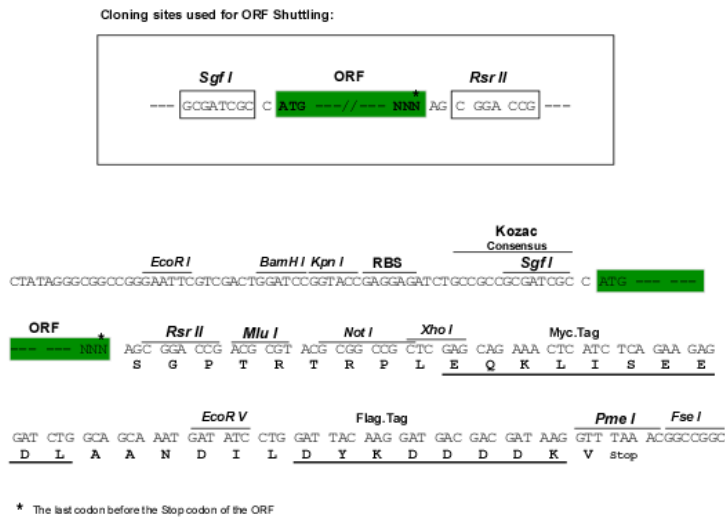
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**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9002\\_g08.zip](https://cdn.origene.com/chromatograms/mm9002_g08.zip)

**Restriction Sites:** Sgfl-RsrII

**Cloning Scheme:**

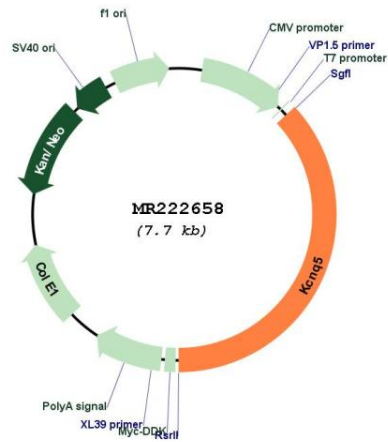


**ACCN:** NM\_001160139

**ORF Size:** 2856 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001160139.1</a> , <a href="#">NP_001153611.1</a>
<b>RefSeq Size:</b>	6992 bp
<b>RefSeq ORF:</b>	2859 bp
<b>Locus ID:</b>	226922
<b>Cytogenetics:</b>	1 A4
<b>MW:</b>	105.1 kDa
<b>Gene Summary:</b>	Associates with KCNQ3 to form a potassium channel which contributes to M-type current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons. Therefore, it is important in the regulation of neuronal excitability. May contribute, with other potassium channels, to the molecular diversity of a heterogeneous population of M-channels, varying in kinetic and pharmacological properties, which underlie this physiologically important current. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222658