





<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001014797 unedited TTCGGATTGTTTTACTAATTTATTTCCCTTATTACAATTAATTGGTGGTGACCATC ATTCTCCTCAAAGAAAAAGAGAGAAAGAAGAGAAAAACACATTAAGGAGTCTGACCACTT ATTCATTTAGATTTTGCATTGTTTAGATATAGGGAAGATATTTGACAATGAAAAGAAAA ATATATTTTCTTTCTAATAAATAAAAAATAATTTAAAATGCTAGAGGCTATACATGACTAT TTTAGTATGTTTCAATTAATAATGAAATCATTCTTTTCCAAAAATACATGGAAGCAATAT TCAAGGCAGACAAAGAGAAAGATCTGTCTACTTTATTTTCTGGCAATTCTTGCTTATCCT AACGTTTCCACCAGTGATTCAGCATGTAAGAAGAAAAGTACATCACCATTATGAAGTT TGTCAGGCTTTAAAAAATAGTTCTGGTCTCCTGGGAGTCAACATTCATCTTCAACTTCT CTGATTGGTGGAAATCAAGCTGCTTGTGGATTTATATTGGTTGATCTGGTTAGCCATGTGG GGTACTCATGGGCTTGATTTGAATGTTTCTGGGATAGGCATTATCCGGTTCATCTTGTA CCATTTCTTTTTCTGTTGTCCCGGACTCCCGGACTTGGGCCGTTCTGTCCGGTTT GCTGTGGATGGGATGGAGTGACAAAGGGACTTTTCTTGCTGAGGACTGCGACGAGTGG AGGATGGAACAAGCTTGCCCGGGCCGGCCGGCTTGTGGCAAACCTGCTTAAACAAAAA CAGGTCCCTCTGCCCCAGCCTAACCCCTCAAGGCCGTTGGGGATTAACCCCTTTGTG CCCCGCCGGGGGCTTGGGGGAGATTCTTACCCGGGAAATCCAAACACAACATTTT TATTGTTTCTGAGTTTTCGCGAAAATTCCTTACCCCTTACCCCTTACCCCTTAGCTCCGATGTG CCCCTAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001014797
<b>Insert Size:</b>	4700 bp
<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>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_001014797.1</a> , <a href="#">NP_001014797.1</a>
<b>RefSeq Size:</b>	11993 bp
<b>RefSeq ORF:</b>	3549 bp
<b>Locus ID:</b>	3778
<b>UniProt ID:</b>	<a href="#">Q12791</a>
<b>Cytogenetics:</b>	10q22.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane

**Protein Pathways:** Vascular smooth muscle contraction

**Gene Summary:** MaxiK channels are large conductance, voltage and calcium-sensitive potassium channels which are fundamental to the control of smooth muscle tone and neuronal excitability. MaxiK channels can be formed by 2 subunits: the pore-forming alpha subunit, which is the product of this gene, and the modulatory beta subunit. Intracellular calcium regulates the physical association between the alpha and beta subunits. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) encodes isoform a. 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.