

## Product datasheet for **MG210490**

### Trpv2 (NM\_011706) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trpv2 (NM_011706) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trpv2
Synonyms:	GRC; OTRPC2; VRL-1; Vrl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG210490 representing NM\_011706  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTTCAGCCTCCAACCCCCAGCTTTTAGGCTGGAGACGTCGGATGGAGATGAAGAAGGCAGTGCTG  
 AGGTGAACAAAGGAAAGAATGAGCCACCCCATGGAGTCTCCCTTCCAGGGAGAGGACCGAACTTCTC  
 CCCTCAGATTAAGTGAATCTCAACTACCGAAAGGGACTGGGTCCCAGCCAACAGGACCCAAATCGGTTT  
 GACCGTGACCGACTCTTCAGTGTGGTCTCCCGGGGTGTCCCGAGGAGCTGACTGGACTGCTAGAGTACC  
 TGCGCCGACCAGCAAGTACCTCACTGACTCGGCATACACAGAAGGCTCCACTGGAAGAGCTGCCTGAT  
 GAAGGCTGTGCTGAACCTTCAGGATGGGGTCAATGCCTGTATCCTGCCGTGCTGCAGATTGACAGGGAT  
 TCCGGCAATCCTCAGCCCTTGTCAATGCCAGTGCACCGATGAGTTCTACCGAGGCCACAGTGCCTGC  
 ACATCGCCATAGAGAAGAGGAGCCTGTGGTGCCTGAAGCTGCTGGTAGAGAATGGAGCGAATGTTACAT  
 CCGAGCCTGTGGCCGCTTCTTCCAAAAGCACCAAGGAACCTGTTTCTATTTTGGAGAGCTACCTCTTTCT  
 CTGGCAGCGTGCACCAAGCAGTGGGATGTGGTGCCTACCTCCTGGAGAACCACACCAGCTGCCAGCC  
 TGGAGGCCACCGACTCCCTGGGCAACACAGTCTGCATGCTCTGGTAATGATTGCAGACAACCTCACTGA  
 GAACAGTGCCTGGTGTATCCACATGTATGACAGCCTTCTCAAATGGGGGCCCGCTCTGCCCACTGTA  
 CAGCTTAGGATATCTGCAACCACTCAAGGCCTCACACCCCTGAAGTTGGCTGCCAAGGAAGTAAATTTG  
 AGATCTTCAGGCACATCCTGCAGCGGGAGTTCTCAGGGCTGTACCAGCCCTTTCCCGAAAGTTCACCGA  
 GTGGTGTACGGTCTGTCCGAGTGTACTGTACGACCTGTCTCTGTGGACAGCTGGGAAAAGAACTCG  
 GTCCTGGAATCATCGCTTTCCATTGCAAGAGCCCGCACCGGCACCGCATGGTGGTTTTAGAGCCACTGA  
 ACAAGCTTCTGCAGGAGAAATGGGATCGGCTCATCCCAAGATTCTTCTCAACTTCGCTGTTACTTGGT  
 CTACATGATCATCTTCACCATAGTTGCCTACCACAGCCTTCCCTGGAGCAGCCAGCCATTCCCTCATCA  
 AAAGCGACTTTTGGGACTCCATGCTGCTGTTGGGCCACATTCTGATCCTGCTTGGGGGATTTTACCTCT  
 TACTGGCCAGCTGTGGTACTTTTGGCGCGCGCCTGTTTCTGATCTGGATCTCGTTCATGGACAGTACTT  
 TGAAATCCTCTTCTTGTCCAGGCGCTGCTCACAGTGTGTCCCAGGTGCTGCGCTTCTGGAGACTGAA  
 TGGTACCTCCCCCTGTTAGTGTATCCCTAGTGTGGCTGGCTGAACCTGCTTTATTATACAGTGGCT  
 TTCAGCACACAGGCATCTACAGTGTATGATCCAAAAGGTCATTCTGCGAGACCTGCTCCGCTTCTGCT  
 GGTCTACCTAGTCTTCTTTTCCGCTTTGCTGTAGCCCTAGTAAGCTTGAGCCGGGAGGCCCGAAGTCCC  
 AAAGCCCCTGAAGATAGCAACCACTGTGACGAAAAGCCACGCTGGGTGAGGAGGAGCCAGTCC  
 CATATGGGGCATTCTGGATGCCTCCCTAGAGCTGTTCAAGTTCACCATGGTATGGGTGAGCTGGCTTT  
 CCAGGAACAGCTGCGCTTTCGTGGGGTGGTGTGCTGTTGCTGTTGGCCTACGTCCTCCTCACCTACGTC  
 CTAAGTGTCAACATGCTCATTGCCCTCATGAGTGTGAGACTGTCAACAGCGTTGCCACTGACAGCTGGAGCA  
 TCTGGAAGTTGCAGAAAGCCATCTGTCTTGGAGATGGAGAAATGGTTACTGGTGGTGCAGGAGGAAAAG  
 GCATCGCGCAGGGAGGCTGCTGAAAGTTGGCACCAAGGGGATGGTATACCTGATGAGCGCTGGTGTCTC  
 AGGGTGGAGGAAGTAACTGGGCTGCATGGGAGAAGACCTTCCACCTTATCTGAGGATCCATCAGGGG  
 CAGGCATCACTGGTTATAAAAAGAACCAACCTCTAACCTGGGAAGAACAGTGCCTCAGAGGAAGACCA  
 TCTGCCTCTTTCAGTCTCCAGTCCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210490 representing NM\_011706  
 Red=Cloning site Green=Tags(s)

MTSASNPPAFRLETSDGDEEGSAEVNKGKNEPPPMESPFQGEDRNFSPQIKVNLNRYKGLGPSQQDPNRF  
 DRDRLFVSVSRGVPEELTGLLEYLRRTSKYL TDSAYTEGSTGKTCLMKAVLNLQDGVNACILPLLQIDRD  
 SGNPQPLVNAQCTDEFYRGHSAHIAIEKRSLWCVKLL VENGANVHIRACGRFFQKHQGTFCYFGEPLPS  
 LAACKQWDDVVTYLLENPHQPASLEATDSLGNVTLHALVMIADNSPENSALVIHMYDSLQMGARLCPTV  
 QLEDICNHQGLTPLKLAKEGKIEIFRHILQREFSGLYQPLSRKFTEWCYGPVRVSLYDLSSVDSWEKNS  
 VLEIIAFHCKSPHRHRMVLEPLNKLLEQEKWDRLI PRFFFNFACYLVYMIIFTIVAYHQPSLEQPAIPSS  
 KATFGDMSLLLGHILILLGGIYLLLGQLWYFWRRLFIWISFMDSYFEILFLVQALLTVLSQVLRVETE  
 WYLLVSSLVGLWLNLLYYTRGFQHTGIYSVMIQKVILRDLLRFLVYLVFLFGFAVALVLSREARSP  
 KAPEDSNTTVTEKPTLGQEEEPVYGGILDASLEL FKFTIGMGELAFQEQLRFRGVVLLLLLAYVLLTYV  
 LLLNMLIALMSETVNSVATDSWSIWKLQKAI SVLEMENGYWCCRKRHRAGRLLKVGTKGDGIPDERWCF  
 RVEEVNWAAWEKTLPTLSEDPGAGITGYKKNPTSKPGKNSASEEDHLPLQVLQSH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

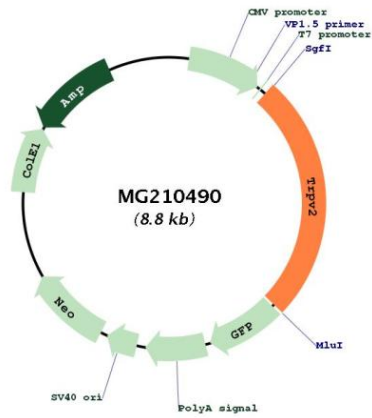


ACCN: NM\_011706

ORF Size: 2268 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_011706.2</a>, <a href="#">NP_035836.2</a></p>
<b>RefSeq Size:</b>	<p>2751 bp</p>
<b>RefSeq ORF:</b>	<p>2271 bp</p>
<b>Locus ID:</b>	<p>22368</p>
<b>UniProt ID:</b>	<p><a href="#">Q9WTR1</a></p>
<b>Cytogenetics:</b>	<p>11 B2</p>
<b>Gene Summary:</b>	<p>Calcium-permeable, non-selective cation channel with an outward rectification. Seems to be regulated, at least in part, by IGF-I, PDGF and neuropeptide head activator. May transduce physical stimuli in mast cells. Activated by temperatures higher than 52 degrees Celsius; is not activated by vanilloids and acidic pH.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MG210490