

## Product datasheet for **MC222020**

### Trpv1 (NM\_001001445) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trpv1 (NM_001001445) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpv1
Synonyms:	OTRPC1; TRPV1alpha; TRPV1beta; VR-1; Vr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC222020 representing NM\_001001445  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGAATGGGCTAGCTTAGACTCGGATGAATCTGAGCCCCAGCCCAAGAGAACTCCTGCCCGGACC  
 CTCAGACAGAGACCCTAACTCCAAGCCGCTCCAGCCAAGCCCCACATCTTTGCTACCAGGAGTCGCAC  
 CCGGCTTTTTGGGAAGGGTGACTCAGAAGAGCCCTCTCCCATGGACTGCCCTTATGAGGAAGCGGGCTG  
 GCCTCCTGCCCTATCATCACCGTCAGCTCTGTTGTCACCTCCAGAGGTCTGTGGATGGACCTACCTGTC  
 TCAGGCAGACATCCAGGACTCTGTCTCCACTGGTGTGAGACGCCCAAGGCTCTATGATCGCAGGAG  
 CATCTTCGACGCTGTGGCTCAGAGCAACTGCCAGGAGCTGGAGAGCCTGCTGTCTTCTGCAGAAGAGC  
 AAGAAGCGCCTGACTGACAGCGAGTTCAAAGACCCAGAGACGGGAAAGACCTGTCTGCTCAAAGCCATGC  
 TCAATCTGCACAATGGGCGAAGCAGACACCATTGCTCTGCTCCTGGACATTGCCCGGAAGACAGATAGCCT  
 GAAGCAGTTTGTCAATGCCAGCTACACAGACAGCTACTACAAGGGCCAGACAGCATTACACATTGCCATT  
 GAAAGGCCGAACATGGCACTGGTACCCTCTTGGTGGAGAATGGAGCAGATGTCCAGGCTGCTGCTAACG  
 GGGACTTCTTCAAGAAAACCAAGGGAGGCCTGGCTTCTACTTTGGTGAGCTGCCCTGTCCCTGGCTGC  
 GTGCACCAACAGCTGGCCATTGTGAAGTTCCTGCTGCAGAACTCCTGGCAGCCTGCAGACATCAGTGCA  
 CGGGATTCCGGTGGCAACACGGTGTGCACGCCCTTGTGGAGGTGGCAGATAACACAGCTGACAACACCA  
 AGTTCTGTGACAAACATGTACAACGAGATCCTGATCCTGGGGGCCAAACTCCACCCACACTGAAGCTAGA  
 AGAACTCACCAACAAGAAGGGGCTTACACCGCTGGCTCTGGTCCAGCAGTGGGAAGATTGGGGTCTTG  
 GCCTACATCTCCAGAGGAGATCCACGAACAGAGTCCCGGCACCTGTCCAGGAAGTTCAGTGAATGGG  
 CCTATGGGCCGTGCACCTCCCTTTATGACCTGTCTGCATTGACACCTGTGAGAAGAATTCAGTGGC  
 GGAGGTGATCGCCTACAGTAGCAGTGAGACCCCAACCGCCACGACATGCTTCTCGTGGAGCCCTTGAAC  
 CGACTCCTGCAGGACAAGTGGGACAGATTTGTCAAGCGCATCTTCTACTTCAACTTCTCGTCTACTGCT  
 TGTATATGATCATCTTACCACGGCTGCTTACTATCGGCCTGTGGAAGGCTTGCSCCCTATAAGCTGAA  
 TAACACCGTTGGGGACTATTTCCGTGTCACTGGAGAGATCCTGTCTGTGTGAGGAGGAGTCACTTCTTC  
 TTCCGAGGGATCCAGTATTTCTGCAGAGGCGACCATCCCTCAAGAGTTTGTGGTGGACAGCTACAGTG  
 AGATACTTTTCTTGTACAGTCACTGTTATGCTGGTGTCTGTGGTACTGTACTTACGCCATCGCAAGGA  
 GTATGTGGCTTCCATGGTGTCTCCCTGGCCATGGGCTGGACCAACATGCTCTACTACACCCGAGGATTC  
 CAGCAGATGGGCATCTATGCTGTATGATTGAGAAGATGATCCTCAGAGACCTGTGTCCGTTTATGTTCCG  
 TCTACCTCGTGTCTTGTGGATTTTCCACAGCCGTAGTGACACTGATCGAGGATGGGAAGAATAACTC  
 ACTGCCTGTGGAGTCCCCACCACACAAGTGTCCGGGATCTGCCTGCAGGCCAGGTAACCTTACAACAGC  
 CTGTATTTCCACATGTCTGGAGCTGTTCAAGTTCACCATCGGCATGGGTGACCTGGAGTTCACCGAGA  
 ATGACTTCAAGGCTGTCTTATCATCTCTGTTACTGGCCTATGTGATTCTCACCTACATCCTCCTGCTCAA  
 CATGCTCATTGCTCTCATGGGCGAGACTGTCAACAAGATTGCACAAGAGAGCAAGAACATCTGGAAGCTG  
 CAGCGAGCCATCACCATCCTGGATACAGAGAAGAGTTTCTGAAGTGCATGAGGAAGGCCTCCGCTCCG  
 GCAAGCTGCTGCAGGTGGGTTACGCCGACGGCAAGGATGACTTCCGGTGGTGTCTCAGGTGGATGA  
 GGTGAACCTGGACTACCTGGAACACCAACGTGGGCATCATCAACGAGGACCCAGGCAACTGTGAGGGCGTC  
 AAGCGCACCCCTGAGCTTCTCCCTGCGGTACAGCCGAGTTTCAGGGAGAACTGGAAGAATTTGCCCTGG  
 TTCCCCTTCTGAGGGACGCAAGCACTCGAGATAGGCATAGCACCCAGCCGGAAGAAGTTCAGCTGAAGCA  
 CTATACGGGATCCCTTAAGCCAGAGGATGCTGAGGTCTTCAAGGATTCATGGCCCCAGGGGAGAAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1174\\_e07.zip](https://cdn.origene.com/chromatograms/ja1174_e07.zip)

Restriction Sites: SgfI-MluI

ACCN: NM\_001001445

Insert Size: 2520 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_001001445.1</a> , <a href="#">NP_001001445.1</a>
<b>RefSeq Size:</b>	2520 bp
<b>RefSeq ORF:</b>	2520 bp
<b>Locus ID:</b>	193034
<b>UniProt ID:</b>	<a href="#">Q704Y3</a>
<b>Cytogenetics:</b>	11 45.25 cM
<b>Gene Summary:</b>	Ligand-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli (PubMed:15194687, PubMed:15489017). Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. Involved in mediation of inflammatory pain and hyperalgesia (PubMed:10764638). Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases, which involves PKC isozymes and PCL. Activation by vanilloids, like capsaicin, and temperatures higher than 42 degrees Celsius, exhibits a time- and Ca(2+)-dependent outward rectification, followed by a long-lasting refractory state. Mild extracellular acidic pH (6.5) potentiates channel activation by noxious heat and vanilloids, whereas acidic conditions (pH <6) directly activate the channel. Can be activated by endogenous compounds, including 12-hydroperoxytetraenoic acid and bradykinin. Acts as ionotropic endocannabinoid receptor with central neuromodulatory effects. Triggers a form of long-term depression (TRPV1-LTD) mediated by the endocannabinoid anandamine in the hippocampus and nucleus accumbens by affecting AMPA receptors endocytosis (By similarity).[UniProtKB/Swiss-Prot Function]