

## Product datasheet for **MC229048**

### Trpc6 (NM\_001282086) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc6 (NM_001282086) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpc6
Synonyms:	AV025995; LLHWJM002; LLHWJM003; LLHWJM004; mtrp6; TRP-6; Trrp6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229048 representing NM\_001282086  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCCAGAGCCCGAGTTTCGTGACCCGAGGGGCGGCTCTCTAAAGGCTGCCCTGGAGCCGGCACCC  
 GGCACAACGAGAGCCAGGACTATTTGCTGATGGACGAGCTGGGAGACGACGGCTACCCGAGCTCCCGCT  
 GCCACCGTATGGCTACTACCCAGCTTCCGGGGTAATGAAAACAGACTGACTCACCGCGGCAGACGATT  
 CTTCTGAGAAGGAAGAAGTTAGCTAATCGAGGACCAGCATACATGTTAATGATCATTCAACAAGCC  
 TGTCTATTGAGGAAGAACGCTTTCTAGATGCAGCTGAATATGGCAACATCCAGTGGTGGGAAGATGCT  
 AGAAGAGTGTCAATCCCTCAATGTTAACTGTGTGGATTACATGGGCCAGAATGCCCTACAGCTGGCTGTG  
 GCCAATGAGCACTTGAAATCACAGAGCTGCTACTCAAGAAGGAAAACCTGTCTCGAGTTGGGGATGCTT  
 TACTTTTAGCCATTAGTAAAGGTTATGTACGGATTGTGGAGGCAATCCTCAACCATCCAGCTTTTGTCTGA  
 AGGCAAAAGGTTAGCGACAAGCCCCAGCCAGTCTGAATTCAGCAAGATGACTTTTATGCCTATGATGAA  
 GATGGGACGCGGTTCTCCCATGATGTGACCCCAATCATTCTCGCTGCACATTGCCAGGAATATGAAATTG  
 TGCATACCTCCTGAGAAAGGGTGCCCGGATTGAGCGGCCTCATGATTACTTCTGCAAGTGTACAGAATG  
 CAGCCAGAAGCAGAAGCATGATTCTTCAGCCACTCTAGATCCAGGATCAATGCATACAAAGGTCTGGCA  
 AGTCCAGCATACCTGTCATTGTCAGTGAAGATCCAGTCACTGCTTTAGAACTTAGCAATGAGCTGG  
 CAGTGTGTTGCCAATTGAGAAAGAGTTCAAGAATGACTACAGGAAGCTGTCTATGCAGTGAAGGATTT  
 CGTTGTTGGTCTCTTGGACCTCTGCAGAAACACAGAGGAAGTGGAGGCCATCCTGAATGGGGATGCAGAG  
 ACTCGCCAGCCCGGGGACTTCGGCCGTCCTCAAACTCTCAGCCGTTTAAAACCTTGCTATTAAGTATGAAGTAA  
 AAAAATTTGTGGTCTATCCAACTGTCAACAACAGCTCCTGTCATATGGTATGAGAACCCTCTCTGGTTT  
 ACGGCAGCAGACCATGGCAGTGAAGTTCCTCGTGGTCTTGTCTGTTGCCATTGGATTGCCCTTCTGGCT  
 CTCATATACTGGTGTGCTCCTTGCAAGATGGGGAAGATATTGCGAGGACCGTTCATGAAGTTTGTAG  
 CACACGCAGCCTCCTCACCATTTTCTGGGGTCTCGTCATGAATGCAGCTGACAGATTTGAAGGCAC  
 CAAGCTCCTCCCTAATGAAACCAGCACAGATAATGCAAGGCAGCTGTTCCAGGATGAAAACATCCTGTTTC  
 TCATGGATGGAGATGCTCATTATCCTGGTAATAGCCAGGATAAAGTGGGACCCTACTGATCCTCAGA  
 TCATCTCTGAAGTCTTTATGCAATCGCTGTGGTTTTAAGTTTCTCCAGAATAGCTTACATTTTACCAGC  
 AAATGAAAGCTTTGGACCTCTGCAGATTTCACTTGAAGAAGCAGTGAAGATATCTCAAATTCATGGTC  
 ATATTCATCATGGTGTGTTAGCCTTTATGATTGGAATGTTCAACCTTTACTCCTACTACATTGGCGCAA  
 AACAGAATGAAGCATTACAACAGTTGAGGAAAGTTTTAAGACACTGTTCTGGGCTATCTTTGGTCTTTC  
 TGAAGTGAAGTCAAGTGGTCATTAACACAAATCACAAGTTCATTGAAAACATCGGGTACGTTCTGTATGGT  
 GTCTATAATGTCACAATGGTCATTGTTTTGCTAAATATGTTAATTGCGATGATCAATAGTTCATTCCAGG  
 AAATTGAGGATGATGCGGACGTGGAGTGGAAAGTTTGAAGGGCCAAATTTGTTGTTTTCTACTTTGAGGA  
 GGGGAGAACACTTCTGTCCCCTCAATCTGTACCAAGTCCAAAATCCTTGCTTTATCTCCTATTGAAA  
 TTTAAGAAATGGATGTGTGAGCTCATCCAGGTCAAAAGCAAGGCTTCCAAGAAGATGCAGAGATGAACA  
 AGAGAAATGAAGAAAAGAAATTTGGAATTTCAAGGAGTCAAGGAGCTCAGAAGATTATCATTTAAATAGTTTCAGT  
 AAATCAGTTGGCACACAACAACAATCAAGTACAAGGAGCTCAGAAGATTATCATTTAAATAGTTTCAGT  
 AACCTCCAAGACAATATCAGAAAATCATGAAGAGACTCATTAAAAGATATGTATTGCAGGCCAGATTG  
 ATAAGGAGAGCGATGAGGTGAATGAAGGGAAATTGAAGGAAATTAAGCAAGACATCTCAAGTCTCGTTA  
 TGAACTCCTTGAAGAGAAATCACAGAACACAGAAGACCTAGCAGAGCTCATTAGAAAACCTCGGGGAGAGA  
 CTGTCGTTAGAGCCAAAGCTGGAGGAAAGCCGAGATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001282086  
**Insert Size:** 2559 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001282086.1, NP_001269015.1</u>
<b>RefSeq Size:</b>	3025 bp
<b>RefSeq ORF:</b>	2559 bp
<b>Locus ID:</b>	22068
<b>Cytogenetics:</b>	9 2.46 cM
<b>Gene Summary:</b>	<p>Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) in a membrane-delimited fashion, independently of protein kinase C. Seems not to be activated by intracellular calcium store depletion.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.</p>