

## Product datasheet for MC224766

### Trpm1 (NM\_001039104) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trpm1 (NM_001039104) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpm1
Synonyms:	4732499L03Rik; AI606771; Ltrpc1; Mlsn1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224766 representing NM_001039104 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGGTCCATGAGGAAGATGAGCAGCTCCTTCAAGCGTGGTTCAATCAAGAGCTCCACATCAGGGTCCC  
AGAAGGGTCAGAAAGCATGGATAGAGAAGACATTTTGCAAAGGGAATGCATCTTTGTAATTTCCAGTAC  
AAAAGACCCTAACAGATGTTGCTGTGGTCAGCTACTAACCAGCACATCCCCCTCTGCCGAGTGGGGCT  
CCCAGCACAACAGGAGAGGACACCAAGCAGGCAGACACGAGTCCGGGAAATGGTCTGTAGCAAAACACA  
CCCAGAGTACCCAACAGACTCCTATGGGATTCTTGAATTCCAGGGTGGGGGTTACTCCAATAAAGCCAT  
GTACATCCGAGTCTCCTACGACACCAAGCCAGATTCCTGCTCCACCTCATGGTGAAGGACTGGCAGCTG  
GAGTCCCGAAGCTCTTGATATCTGTGCACGGAGGCCCTCAAAGCTTCGAGATGCAGCCAAACTGAAGC  
AGGTGTTGGGAAAGGTCTGATCAAGGCTGCCATGACCACGGGGCGTGGATCTTACCAGGGGTGTGAG  
CACTGGTGTGTCAGCCATGTGGGGATGCCTTGAAGACCCTCCTCCAAGTCCAGAGGCCGGCTCTGT  
GCTATAGGAATTGCTCCCTGGGGCATGGTGGAGAACAAGGAAGACCTGATTGGAAAAGATGTAACAAGAG  
TCTATCAGACCATGTCCAACCTCTGAGCAAGCTCTCTGTGCTCAACAATTCCACACTCACTTTCATCTT  
GGCTGACAACGGCACCTGGGCAAGTATGGTGTGAGGTGAAGCTTCAAGACAGCTGGAAAACACATC  
TCCTGCAGAAGATCAACACAAGGCTGGGCCAGGGTGTACCTGTGCTGGGCCCTAGTGGTAGAAGGTGGTC  
CTAACGTGGTTTCTATCCTGAGTATCTCAAAGAAGACCCTCCTGTCCCTGTGGTGGTTTGGCATGG  
CAGTGGACGTGCCTCTGACATTTTGTCTTTCGCACACAAATACTGCGACGAAGGAGGAGTCATAAACGAG  
TCCCTGCGGGACCAGTCTAGTTACCATTAGAAAACATTTAATTACAGCAAGTCCCAGTCGTATCAGC  
TGTTTGAATTATCATGGAGTGCATGAAGAAGAAAGAACTCGTCACTGTGTTCCGATGGGTTCCGAGGG  
TCAGCAAGATGTCGAGATGGCAATTTAACTGCCTTGCTCAAAGGAACCAACGCATCAGTCCAGATCAG  
CTGAGCTTGGCCCTGGCTTGAACCGGGTGCAGATAGCGCGAAGCCAGATCTTCGCTTTTGCCCACT  
GGCCGCCACTGGGAAGCCTGGCCCTCCTGTGGACACCAAGCCACAGAGAAGGAAAAGAAAGCCACCAC  
AGCCACCACCAAGGGGAGAGGAAAAGGAAAAGGCAAGAAGAAAGGCAAAGTGAAGAGGAAAGTGGAGGAA  
GAGACGGACCCCGAAGCTTGAGCTGCTCAACTGGGTGAATGCCTGGAGCAAGCCATGCTGGATGCTC



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TTGTCCTAGATCGGGTGGACTTTGTAAAGCTCCTGATTGAAAACGGAGTGAACATGCAGCATTTCCTCAC  
 CATCCCGAGGCTGGAGGAGCTATAACAACCCAGACTGGGCCACCAAACCCCTTCATCTGCTGGTGGC  
 GATGTAAGAAGAGCAACCTCCACCTGATTACCATCAGCCTCATTGATATAGGACTGGTGGTGGAGT  
 ACCTCATGGGCGGTGCCTACCGTGAACCTACACTCGGAAAGCTTCGGACTCTCTACAACAATTGTT  
 TGGCCCTAAGAGGCCGAAAGCACTTAAGCTTCTGGGAAATGGAAGATGATGAACCCCAAGCAAGGCAAG  
 AAAAAAAGAAGAAGAAGAAGAGGAAGAGATTGACATCGACGTGGACGACCCCGCGGTGAGTAGTTCC  
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 GCAGCGTGGGGAAGAGTGCATGGCGAAGGCCTTGGTGGCCTGCAAGCTCTACAAGCCATGGCCACGAG  
 TCCTCCGAGAGCGAGCTGGTGGATGACATCTCCAGGATCTGGACAACAATTCCAAGATTTTGGCCAGC  
 TCGCTGTGGAGCTGTTAGACCAGTCTTACAAGCAGATGAGCAGGTTGCCATGAAACTTCTGACCTACGA  
 GCTCAAGAACTGGAGCAACTCAACCTGCCTGAAGCTGGCTGTGGCAGCCAAGCACCAGGACTTCATTGCT  
 CACACCTGCAGCCAGATGCTGCTGACAGACATGTGGATGGGAAGGCTTCGCATGAGGAAGAACCCTGGCC  
 TGAAGGTATCATGGGGATCCTTATCCACCCACCATCTGTTTTTGAATTCCGTACATATGATGACTT  
 CTCCTATCAAACATCCAAGGAGAACGAAGATGGCAAAGAAAAGGAAGAAGAGAATGTGGATGCAAAATGCA  
 GATGCTGGCTCGAGAAAGGGGATGAGGAGAATGAGCACAAAAGCAGAGGAGCATTCCCATGGAAACA  
 AGATCTGTGAATTCTATAATGCGCCATTGTCAAGTTCTGGTTTTACACAATTTCTACTTGGGCTACTT  
 GCTGCTGTTCAATTATGTCATCCTGGTGGGATGGATGGATGGCCATCACCCCAAGAATGGATTGTCATC  
 TCCTACATTGTGAGCCTTGCATTGGAGAAAATACGAGAGATCCTCATGTCGGAACCAAGGCAAACTCAGCC  
 AGAAAAACAAGTGTGGCTCCAGGAGTACTGGAACATCACAGACCTCGTGGCCATCTCCATGTTTATGGT  
 TGGGGCCATCCTTCGCTCCAGAGCCAGCCATACATGGGCTATGGTGGGTCATCTACTGTGTGGATATC  
 ATCCTCTGGTACATCCGAGTGTAGACATCTTTGGTGTCAACAAATATCTTGGTCCCTATGTGATGATGA  
 TTGAAAGATGATGATTGACATGCTCTACTTTGGTGCATTATGCTGGTGTACTGATGAGTTTTGGAGT  
 GGCTCGGCAAGCCATCTTGCATCCGAGGAGAGCCCTTCTGAAACTGGCCGAAACATCTTCTACATG  
 CCATATGGATGATCTACGGAGAGGTGTTGACAGACCAGATAGACCTCTACGCCATGGAATCAACCCCTC  
 CTGTGGTGAATCTCTATGATGAGGAAGGCAAGAGGCTCCCTCCCTGCATCCCTGGTGCCTGGCTCAC  
 ACCTGCCCTCATGGCCTGTTATCTCCTGGTGGCAATATCCTGCTGGTCAACCTACTGATTGCTGTTTTT  
 AACAACTCTTTGAAGTCAAGTCAATATCCAATCAAGTGTGGAAGTCCAGCGATACCAGCTGATCA  
 TGACATTTATGACAGGCCGGTCTGCCCCACCAATGATCATCTTAAGTACATCTATATCATCATTAT  
 GCGCCTCAGCGTGCCTGCAGAAAAAGAGAGAGGGGGACCAGGAGGAGCGGGACCGTGGTTGAAGTTG  
 TTCCTTAGCGACGAAGAACTGAAAAACTGCATGAGTTTGAAGGAGCAGTGCCTGCAGGAGCACTCCGGG  
 AAAAGGAGGATGAGCAGCAGTCTCCAGCGACGAGCGCATCCGGGTCAACAAGCGAGAGGTTGAAAATAT  
 GTCAATGAGATTGGAGGAAATCAACGAAAGAGAAAATTTATGAAAATCTCTCTGACAGCTTGTGACCTT  
 CGGCTCTCTCAGCTGGAGGAGCTATCTGGCAGGATGGTGAAGCGCTCTGGAGAATCTGGCAGGCATCGACA  
 GGTCTGATCTGATCCAGGCTCGATCTCGAGCATCCTCCGAATGCGAGGCCACCTACCTGCTGCGGCAGAG  
 CAGCATCAACAGTGCAGCGGCTACAGCTTGTACCGCTACCATTTCAATGGCGAGGAGCTTCTGTTTGA  
 GAGCCTGCTCTCTCCACTTCCAGGACAGCGGTTCCGGAAAAAACCTACTCCTTTCTGTGGAAGGATG  
 AGGATGCAAAAGTGCACCTGGACCAGCCAGCAACCTGCACCACACCCCTGGCCAGCCACCTGCCAC  
 GCCAGGCCGAGCCGGCTCGCCCTTGAAGTCCCTTGAAGCAGAGCTGAGACCTGGATCGGACCCCTGGC  
 ATCTCCGACGGGAGTTGATCCGCGGGCGGATTTCAAGAGCACGGAAGCTGCACCAAGTCTGAACGCAG  
 CGGGTGTACAGGCACTCAACTGACTGTGAAAGCACCGATTCCACCCCTCTGCGGGAGAGCAAACTCGT  
 GCGCTACTACCCCGAGACCCTAACACCTACAAAACAATGAAGTCCAGAAGCTTCTGCTATACTGAAGGA  
 AGAAAGCTAGTCCGAGGCTTAGCAACTGGAGTGCAGAGTACAGTTCAATCATGGACCAAGCATGGAACG  
 CGACAGAATGGAGATGTCAAGTTCAAAGGATCACGCGCTCCCGCAGCACAGACATCCCATACATCGTGTC  
 CGAAGCAGCCTCGCAAGACGAGCTTGAAGATGAGCACAGAGGATCTTCTGGATCCTCAGATCTCCCGT  
 TCAGCCCTCACCGTCTCCGACAGGCCAGAAAAGGAAAATCTACTCTGTGAAGCCACATCAGACTTTAG  
 GATTCCCTGCCTACGGTCAAGAAGTTTACATGGCCGCTCCTAGGAGTGTGAGCCGCTCCTAGCAAAT  
 AGACAGGGCAGGACATGCCAGCAGCACTAGCAACTTAGCAGTTATGTCAGTTGTTCCAGAGGGACAAAAC  
 ACCCAGCAAGAGAAAAGAAGCGCGGAAACTGAGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001039104
<b>Insert Size:</b>	4869 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>	<u><a href="#">NM_001039104.2</a></u> , <u><a href="#">NP_001034193.2</a></u>
<b>RefSeq Size:</b>	5711 bp
<b>RefSeq ORF:</b>	4869 bp
<b>Locus ID:</b>	17364
<b>UniProt ID:</b>	<u><a href="#">Q2TV84</a></u>
<b>Cytogenetics:</b>	7 34.61 cM
<b>Gene Summary:</b>	<p>Cation channel essential for the depolarizing photoresponse of retinal ON bipolar cells. It is part of the GRM6 signaling cascade. Calcium channel which may play a role in metastasis suppression. May act as a spontaneously active, calcium-permeable plasma membrane channel.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (TRPM1-L, PMID: 19966281, also known as Trpm1delta189-1078) differs in the 5' UTR and 5' coding region, and includes several additional exons at the 3' end, compared to variant 1. The resulting isoform (2) has distinct N- and C-termini, and is longer than isoform 1.</p>