

Product datasheet for **MC223594**

Trpm8 (NM_134252) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trpm8 (NM_134252) Mouse Untagged Clone
Tag: Tag Free
Symbol: Trpm8
Synonyms: CMR1; LTrpC-6; LTRPC6; Trp-p8; TRPP8
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223594 representing NM_134252
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTTCGAGGGAGCCAGGCTCAGCATGAGGAGCCGAGAAATGGTACTATGGGCAGCACCCGGACCC
 TGTACTCCAGTGTATCTCGGAGCACAGAGCTGTCTACAGTGACAGTGATTTGGTGAATTTTATTCAGCC
 AAATTTAAAAACGAGAATGTGTCTTTACCAGAGACTCCAAGGCCATGGAGAACATATGCAAGTGT
 GGTATATGCCAGAGCCAGCACATCGAAGGCACCCAGATCAACCAAATGAGAAAGTGAACACAAAAAAC
 ATACCAAGGAGTTTCCAACAGACGCCTTCGGGGACATTAGTTTGAGACTCTGGGGAAGAAAGGCAAGTA
 CTTACGCTTGTCTGTGACACCGACTCTGAAACTCTACGAACTGCTGACCCAGCACTGGCACCTCAAA
 ACACCCAACTGGTCATTTAGTACGCGGTTGGAGCCAAAACTTTGCTTTGAAGCCACGCATGCGCAAGA
 TCTTCAGCAGGCTGATTTACATCGCACAGTCTAAAGGTGCGTGGATTCTCACTGGAGGCACTCACTACGG
 CCTGATGAAGTACATAGGCGAGGTGGTGTGAGAGACAACACCATCAGCAGGAACTCAGAAGAGAACATCGTG
 GCCATTGGCATCGCAGCATGGGGCATGGTCTCCAACAGGGACACCCTCATCAGGAGCTGTGATGATGAGG
 GACATTTTTAGCTCAATACATCATGGATGACTTTACCAGAGACCCTCTATACATCCTGGACAACAACCA
 TACCCACCTGCTGCTTGTGGACAACGGTTGTATGGACACCCACAGTGGAAAGCCAAGCTCCGGAATCAG
 CTGAAAAAGTACATCTCTGAGCGCACCAAGTCAAGATTCCAATGTTGGTGGTAAGATCCCCATCGTGTGTT
 TTGCCAAGGAGGTGGAAGAGAGACTCTAAAAGCCATCAACACCTCTGTCAAAGCAAGATCCCTTGTGT
 GGTGGTGAAGGCTCGGGCAGATTGCTGATGTGATCGCCAGCCTGGTGGAGGTGGAGGATGTTTTAACCC
 TCTTCCATGGTCAAAGAGAAGCTGGTACGCTTTTTACCACGCACTGTGTCCCGCTGCCTGAAGAGGAAA
 TTGAGAGCTGGATCAAATGGCTCAAAGAAATCTTGAGAGTTCTACCTACTCACAGTAATTAAGATGGA
 AGAGGCTGGAGATGAGATTGTGAGCAACGCCATTTCTATGCGCTGTACAAAGCCTTCAGCACTAATGAG
 CAAGACAAGGACAACCTGGAATGGACAGCTGAAGCTTCTGCTGGAGTGGAAACCAGTTGGACCTTGCCAGTG
 ATGAGATCTTACCAATGATCGCCGCTGGGAGTCTGCCGACCTTCAGGAGTTCATGTTACAGGCTCTCAT
 AAAGGACAGACCAAGTTTGTCCGCTCTTTCTGGAGAATGGCCTGAATCTGCAGAAATTTCTACCAAT
 GAAGTCTCACAGAGCTTCTCCACCCACTTCAGCACCTAGTGTACCGGAATCTGCAGATCGCCAAGA



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ACTCCTACAATGACGCACTCCTCACCTTTGTCTGGAAGTTGGTGGCAAACCTCCGTGCAAGCTTCTGGAA
 AGAGGACAGAAGCAGCAGGGAGGACTTGGATGTGGAACCCATGATGCATCTCTACCACCCGGCACCCG
 CTGCAAGCTCTTTCATCTGGGCCATTCTTCAACAAGAAGAACTCTCCAAGTCAATTTGGGAGCAGA
 CCAAAGGCTGTACTCTGGCAGCCTTGGGGGCCAGCAAGCTTCTGAAGACCCTGGCCAAAGTTAAGAATGA
 TATCAACGCTGCTGGGAATCGGAGGAAGTGGCCAATGAATATGAGACCCGAGCAGTGGAGTTGTTACCC
 GAGTGTACAGCAATGATGAAGACTTGGCAGAACAGCTACTGGTCTACTCCTGCGAAGCCTGGGGTGGGA
 GCAACTGTCTGGAGCTGGCAGTGGAGGCTACAGATCAGCATTTCATCGCTCAGCCTGGGGTCCAGAATTT
 CCTTTCTAAGCAATGGTATGGAGAGATTTCCCGAGACACGAAGAAGTGGAAAGATTATCCTGTGTCTATTC
 ATCATCCCCTTAGTGGGCTGTGGCCTCGTATCATTAGGAAGAAAACCCATTGACAAGCACAGAAGCTGC
 TGTGGTACTATGTGGCCTTCTTACGTCGCCCTTCGTGGTCTTCTCCTGGAACGTGGTCTTCTACATCGC
 CTTCTCCTGCTGTTTGCCTATGTGCTGCTCATGGACTTCCACTCAGTCCACACACCCCCGAGCTGATC
 CTCTACGCCCTGGTCTTCGTCTCTTGTGATGAAGTGAAGCAGTGGTACATGAACGGAGTGAATTATT
 TCACCGACCTATGGAACGTTATGGACACCCTGGGACTCTTCTACTTCATAGCGGGTATTGTATTCCGGCT
 CCACTCTTCTAATAAAAAGCTCGTTGTACTCTGGGCGCTCATTTTCTGTCTGGATTACATTATATTCAGC
 CTAAGGCTCATCCACATTTTCCCGTCAAGGAACTTGGGACCAAGATTATAATGCTGCAGCGGATGC
 TGATCGAGTTTTCTTCTTCTGTTCTCTTTGCTGTGTGGATGGTGGCCTTTGGCGTGGCCAGACAGGG
 GATCCTAAGGCAAAATGAACAGCGCTGGAGATGGATCTCCGCTCTGTCTATGAGCCCTACCTGGCC
 ATGTTTGGCCAGGTTCCAGTGACGTGGATAGTACCACATATGACTTCTCCCACTGTACCTTCTCGGGAA
 ATGAGTCCAAGCCACTGTGTGTGGAGCTGGATGAGCACAACTGCCCCGCTTCCCTGAGTGGATCACCAT
 TCCGCTGGTGTGCATCTACATGCTCTCCACCAATATCCTTCTGGTCAACCTCCTGGTCCCATGTTTGGC
 TACACGGTAGGCATTGTACAGGAGAACAACGACCAGGTCTGGAATTCAGCGGTAATCTCCTGGTGCAGG
 AGTACTGCAACCGCTAAACATCCCCTTCCCCTTCGTTGTCTTCGCTTATTTCTACATGGTGGTGAAGAA
 GTGTTTCAAATGCTGCTGTAAGAGAAGAATATGGAGTCTAATGCCTGCTGTTTCAGAAAATGAGGCAAT
 GAGACTTTGGCGTGGGAGGGTGTATGAAGGAGAATTACCTTGTCAAGATCAACACGAAAAGCCAACGACA
 ACTCAGAGGAGATGAGGCATCGGTTTAGACAACCTGGACTCAAAGCTTAACGACCTCAAAGTCTTCTGAA
 AGAGATTGCTAATAACATCAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_134252
- Insert Size:** 3315 bp
- OTI Disclaimer:** 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).
- Components:** 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).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 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.
- RefSeq:** [NM_134252.3](#), [NP_599013.1](#)

RefSeq Size: 3869 bp

RefSeq ORF: 3315 bp

Locus ID: 171382

UniProt ID: [Q8R4D5](#)

Cytogenetics: 1 D

Gene Summary: Receptor-activated non-selective cation channel involved in detection of sensations such as coolness, by being activated by cold temperature below 25 degrees Celsius. Activated by icilin, eucalyptol, menthol, cold and modulation of intracellular pH. Involved in menthol sensation. Permeable for monovalent cations sodium, potassium, and cesium and divalent cation calcium. Temperature sensing is tightly linked to voltage-dependent gating. Activated upon depolarization, changes in temperature resulting in graded shifts of its voltage-dependent activation curves. The chemical agonists menthol functions as a gating modifier, shifting activation curves towards physiological membrane potentials. Temperature sensitivity arises from a tenfold difference in the activation energies associated with voltage-dependent opening and closing.[UniProtKB/Swiss-Prot Function]