

Product datasheet for **SC304125**

TRPM5 (NM_014555) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPM5 (NM_014555) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRPM5
Synonyms:	LTRPC5; MTR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC304125 sequence for NM_014555 edited (data generated by NextGen Sequencing)

```

ATGCAGGATGTCCAAGGCCCCCGTCCCGAAGCCCGGGGATGCTGAAGACCGGGGGAGCTGGGCTTGC
ACAGGGGCGAGGTCAACTTTGGAGGGTCTGGGAAGAAGCGAGGCAAGTTGTACGGGTGCCGAGCGGAGT
GGCCCCGTCTGTGCTCTTTGACCTGCTGCTTGTGCTGAGTGGCACCTGCCAGCCCCAACCTGGTGGTGTC
CTGGTGGGTGAGGAGCAGCCTTTGCGCATGAAGTCTGGCTGCGGGATGTGCTGCGCAAGGGGCTGGTGA
AGGCGGCTCAGAGCACAGGAGCCTGGATCCTGACCAGTCCCTCCGCGTGGGCTGGCCAGGCATGTCGG
GCAGGCCGTGCGGACCACTCGCTGGCCAGCACGTCCACCAAGGTCCGTGTGGTGTGCTGTCGGCATGGCC
TCGCTGGGCCGCTCCTGCACCCCGCATTCTGGAGGAGGCCAGGAGGATTTTCTGTCCACTACCTG
AGGATGACGGCGGCAGCCAGGGCCCCCTGTTCCTGACTGGACAGCAACCTCTCCACTTCATCCTGGTGG
GCCAGGCCCCCGGGGAAGGGCGATGGGCTGACGGAGCTGCGGCTGAGGCTGGAGAAGCACATCTCGGAG
CAGAGGGCGGGCTACGGGGGCACTGGCAGCATCGAGATCCCTGTCTCTGCTTGTGGTCAATGGTGATC
CCAACACCTTGGAGAGGATCTCCAGGGCGTGGAGCAGGCTGCCCGTGGCTGATCCTGGCAGGCTCGGG
GGGCATCGCCGATGTGCTTGTGCCCTAGTGAACAGCCCCACCTCCTGGTGCCCAAGGTGGCCGAGAAG
CAGTTTAAGGAGAAGTTCCTCCAGCAAGCATTCTCTTGGGAGGACATCGTGCCTGGACCAAGCTGCTGC
AGAATCACCTCACACCAGCACCTGCTCACCGTGTATGACTTCGAGCAGGAGGGCTCCGAGGAGCTGGA
CACGGTCATCCTGAAGGCGTGGTGAAGCCTGCAAGAGCCACAGCCAGGAGCCTCAGGACTATCTGGAT
GAGCTCAAGCTGGCCGTGGCCTGGGACCGCTGGACATCGCCAAGAGTGAGATCTCAATGGGGACGTGG
AGTGGAAGTCTGTGACCTGGAGGAGGTGATGGTGGACGCCCTGGTCAGCAACAAGCCCGAGTTTGTGCG
CCTCTTTGTGGACAACGGCGCAGACGTGGCCGACTTCTGACGTATGGGCGGCTGCAGGAGCTCTACCGC
TCTGTGTACGCAAGAGCCTGCTCTTCGACCTGCTGCAGCGGAAGCAGGAGGAGGCCCGGCTGACGCTGG
CCGGCCTGGGCACCCAGCAGGCCCGGGAGCCACCCGCGGGGCCACCGCCTTCTCCCTGCACGAGGTCTC
CCGCGTACTCAAGGACTTCTGCAGGACGCTGCCGAGGCTTCTACCAGGACGGCCGGCCAGGGGACCGC
AGGAGGGCGGAGAAGGGCCCGGCAAGCGGCCACGGGCCAGAAGTGGCTGCTGGACCTGAACCAGAAGA
GCGAGAACCCTGGCGGACCTGTTCTGTGGCCGTGCTGCAGAACCGCCACGAGATGGCCACCTACT

```



[View online »](#)

```

CTGGGCCATGGGCCAGGAAGGTGTGGCAGCCGCACTGGCCGCTGCAAAATCCTCAAAGAGATGTGCAC
CTGGAGACGGAGGCCGAGGCCGAGCCACGCGGAGGCGAAATACGAGCGGCTGGCCCTTGACCTCT
TCTCCGAGTGCTACAGCAACAGTGAGGCCCGCCCTTCGCCCTGCTGGTGCGCCGGAACCGCTGTGGAG
CAAGACCACCTGCCTGCACCTGGCCACCGAGGCTGACGCCAAGGCCTTCTTTGCCACGACGGCCTCAG
GCCTTCTGACCAGGATCTGGTGGGGGACATGGCCGACGACGCCATCCTGCGGCTGCTAGGAGCCT
TCCTCTGCCCCGCCCTCGTCTATACCAACCTCATACCTTCAGTGAGGAAGCTCCCCTGAGGACAGGCCT
GGAGACCTGCAGGACCTGGACAGCCTGGACACGAGAGAGCCGCTGTATGGCCTGCAGAGCCGGGTG
GAGGAGCTGGTGGAGGCCGAGGGCTCAGGGTGACCGAGGCCACGTGCTGCTTCTGCTCACACGCT
GGCGAAAATTCTGGGGCCTCCCGTGACTGTGTTCTGGGGAACGTGGTCATGTACTTCGCCCTTCTCTT
CCTGTTACCTACGTCTGCTGGTGGACTTCAGGCCGCCGCCAGGGCCCTCAGGGCCCGAGGTCAAC
CTCTACTTCTGGGTCTTACGCTGGTGTGGAGGAAATCCGGCAGGGCTTCTTACAGACGAGGACACAC
ACCTGGTGAAGAAGTTCACACTGTATGTGGGGACAACCTGGAACAAGTGTGACATGGTGGCCATCTTCT
GTTTCATCGTGGGTGTACCTGCAGGATGCTGCCGTGGCGTTTGAGGCTGGCCGCACAGTCTCGCCATG
GACTTCATGGTGTTCACGCTGCGGCTGATCCATATCTTTGCCATACACAAGCAGCTGGGCCCAAGATCA
TCGTGGTAGAGCGCATGATGAAGGACGTCTTCTTCTTCTTCTTCTGAGCGTGTGGCTCGTGGCCTA
CGGTGTACCACCCAGGCGCTGCTGCACCCCATGACGGCCGCTGGAGTGGATCTTCCGCCGGGTGCTC
TACCGGCCCTACCTGCAGATCTTCGGCCAGATCCCACTGGACGAGATTGATGAAGCCGTGTGAAGTGT
CCACCCACCCACTGCTGCTGGAGGACTCACCATCCTGCCCCAGCCTCTATGCCAACTGGCTGGTCATCCT
CCTGCTGGTACCTTCTGTTGGTACCAATGTGCTGCTCATGAACCTGCTCATCGCCATGTTACAGTAC
ACGTTCCAGGTGGTGCAGGGCAACGACAGATGTTCTGGAAGTTCAGCGCTACAACCTGATTGTGGAGT
ACCACGAGCGCCCCGCCCTGGCCCCGCCCTTATCCTGCTCAGCCACTGAGCCTGACGCTCCGCCGGGT
CTTCAAGAAGGAGGCTGAGCACAAGCGGGAGCACCTGGAGAGAGACCTGCCAGACCCCTGGACCAGAAG
TTCGCTCACCTGGGAGACAGTCCAGAAGGAGAATTCTGAGCAAGATGGAGAAGCGGAGGAGGACAGCG
AGGGGGAGGTGCTGCGGAAAACCGCCACAGAGTGGACTTCATTGCCAAGTACCTCGGGGGTCTGAGAGA
GCAAGAAAAGCGCATCAAGTGTCTGGAGTACAGATCAACTACTGCTCGGTGCTCGTGTCTCCGTGGCT
GACGTGCTGGCCAGGTTGGCGCCCCGGAGCTCTCAGCACTGTGGCGAGGGAAGCCAGCTGGTGGCTG
CTGACCACAGAGGTGTTAGATGGCTGGGAACAACCCGGGGCTGGCCAGCCTCCCTCGGACACCTGA

```

Clone variation with respect to NM_014555.3

189:a=>g 761:c=>t 1263:t=>c

- Restriction Sites:** Please inquire
- ACCN:** NM_014555
- Insert Size:** 3500 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a good match to NM_014555.2 except one 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_014555.2](#), [NP_055370.1](#)

RefSeq Size: 3946 bp

RefSeq ORF: 3498 bp

Locus ID: 29850

UniProt ID: [Q9NZQ8](#)

Cytogenetics: 11p15.5

Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Protein Pathways: Taste transduction

Gene Summary: This gene encodes a member of the transient receptor potential (TRP) protein family, which is a diverse group of proteins with structural features typical of ion channels. This protein plays an important role in taste transduction, and has characteristics of a calcium-activated, non-selective cation channel that carries Na⁺, K⁺, and Cs⁺ ions equally well, but not Ca(2⁺) ions. It is activated by lower concentrations of intracellular Ca(2⁺), and inhibited by higher concentrations. It is also a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. This gene is located within the Beckwith-Wiedemann syndrome critical region-1 on chromosome 11p15.5, and has been shown to be imprinted, with exclusive expression from the paternal allele. [provided by RefSeq, Oct 2010]