

Product datasheet for **SC318643**

TRPM1 (NM_002420) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRPM1 (NM_002420) Human Untagged Clone
Tag: Tag Free
Symbol: TRPM1
Synonyms: CSNB1C; LTRPC1; MLSN1
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002420 edited
 ATGAAAGACTCTAACAGGTGTTGCTGTGGCCAGTTCACCAACCAGCATATCCCCCTCTG
 CCAAGTGCAACACCCAGCAAAAATGAAGAGGAAAGCAAACAGGTGGAGACTCAGCCTGAG
 AAATGGTCTGTTGCCAAGCACACCCAGAGCTACCCAACAGATTCTATGGAGTCTTGAA
 TTCCAGGGTGGCGGATATTCCAATAAAGCCATGTATATCCGTGTATCCTATGACACCAAG
 CCAGACTCACTGCTCCATCTCATGGTAAAAGATTGGCAGCTGGAACCTCCCAAGCTCTTA
 ATATCTGTGCATGGAGGCCTCCAGAACTTTGAGATGCAGCCCAAGCTGAAACAAGTCTTT
 GGGAAAGGCCTGATCAAGGCTGCTATGACCACCGGGGCTGGATCTTCACCGGGGTGTC
 AGCACAGGTGTTATCAGCCAGTAGGGGATGCCTTGAAAGACCACTCCTCCAAGTCCAGA
 GGCCGGGTTTGTCTATAGGAATTGCTCCATGGGGCATCGTGAGAATAAGGAAGACCTG
 GTTGAAAGGATGTAACAAGAGTGTACCAGACCATGTCCAACCCTAAGTAAGCTCTCT
 GTGCTCAACAACCTCCACACCCACTTCATCCTGGCTGACAATGGCACCCCTGGGCAAGTAT
 GGCGCCGAGGTGAAGCTGCGAAGGCTGCTGGAAAAGCACATCTCCCTGCAGAAGTCAAC
 ACAAGACTGGGGCAGGGCGTGCCCTCGTGGTCTCGTGGTGGAGGGGGCCCTAACGTG
 GTGTCCATCGTCTTGGAAACCTGCAAGAAGAGCCTCCCATCCCTGTGGTGAATTTGTGAT
 GGCAGCGGACGTGCCTCGGACATCCTGTCTTTGCGCACAAGTACTGTGAAGAAGGCGGA
 ATAATAAATGAGTCCCTCAGGGAGCAGCTTCTAGTTACCATTAGAAAACATTTAATTAT
 AATAAGGCACAATCACATCAGCTGTTTGAATTATAATGGAGTGCATGAAGAAGAAGAA
 CTCGTCAGTGTGTTGAGAAATGGTTCTGAGGGCCAGCAGGACATCGAGATGGCAATTTTA
 ACTGCCCTGCTGAAAGGAACAAACGTATCTGCTCCAGATCAGCTGAGCTTGGCACTGGCT
 TGGAAACCGCTGGACATAGCACGAAGCCAGATCTTTGTCTTTGGGCCCCACTGGCCGCC
 CTGGGAAGCCTGGCACCCCGACGGACAGCAAAGCCACGGAGAAGGAGAAGAAGCCACCC
 ATGGCCACCACCAAGGGAGGAAGAGGAAAAGGAAAGGCAAGAAGAAAGGAAAGTGAAA
 GAGGAAGTGGAGGAAGAACTGACCCCGAAGATAGAGCTGCTGAACTGGGTGAATGCT
 TTGGAGCAAGCGATGCTAGATGCTTTAGTCTTAGATCGTGTGACTTTGTGAAGCTCCTG
 ATTGAAAACGGAGTGAACATGCAACACTTTCTGACCATTCCGAGGCTGGAGGAGCTTTAT
 AACACAAGACTGGGTCCACCAACACACTTCATCTGCTGGTGGAGGATGTGAAAAGAGC



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AACCTTCCGCCTGATTACCACATCAGCCTCATAGACATCGGGCTCGTGGCTGGAGTACCTC
ATGGGAGGAGCCTACCGCTGCAACTACACTCGGAAAACTTTTCGGACCCTTTACAACAAC
TTGTTTGGACAAAGAGGCCTAAAGCTCTTAAACTTTCGGGAATGGAAGATGATGAGCCT
CCAGCTAAAGGGAAGAAAAAGAAAAAGAAAAAGGAGGAAGAGATCGACATTGATGTG
GACGACCTGCCGTGAGTCGGTTCAGTATCCCTTCCACGAGCTGATGGTGTGGGCAGTG
CTGATGAAACGCCAGAAAATGGCAGTGTCTCTGGCAGCGAGGGGAAGAGAGCATGGCC
AAGGCCCTGGTGGCCTGCAAGCTCTACAAGGCCATGGCCACGAGTCTCCGAGAGTGAT
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TTGGAGTTATTAGACCAGTCCTATAAGCATGACGAGCAGATCGCTATGAAACTCCTGACC
TACGAGCTGAAAACTGGAGCAACTCGACCTGCCTCAAAGTGGCCGTGGCAGCCAAAAC
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ATCTTGTTTTTGGAATTCGCACATATGATGATTTCTCGTATCAAACATCCAAGGAAAAT
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CAGCCCTACATGGGCTATGGCCGGGTGACTACTGTGTGGATATCATCTTCTGGTACATC
CGTGTCTGGACATCTTTGGTGTCAACAAGTATCTGGGGCCATACGTGATGATGATTGGA
AAGATGATGACGACATGCTGTACTTTGTGGTCATCATGCTGGTGTGCTCATGATGTTTC
GGAGTAGCCCGTCAAGCCATTCTGCATCCAGAGGAGAAGCCCTCTTGAAAACCTGGCCGA
AACATCTTCTACATGCCCTACTGGATGATCTATGGAGAGGTGTTTGCAGACCAGATAGAC
CTCTACGCCATGGAAATTAATCCTCCTTGTGGTGAACCTATATGATGAGGAGGGCAAG
CGGCTTCTCCCTGTATCCCCGGCGCCTGGCTCACTCCAGCACTCATGGCGTGTATCTA
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CGCATCCGGGTCACTTCTGAAAGAGTTGAAAATATGTCAATGAGGTTGGAAGAAATCAAT
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GACCTGATCCAGGCACGGTCCCGGGCTTCTTCTGAATGTGAGGCAACGTATCTTCTCCGG
CAAAGCAGCATCAATAGCGCTGATGGCTACAGCTTGATCGATATCATTTTAACGGAGAA
GAGTTATTTTGGAGTACATCTCTCCACGTCACCAGGACAGGAGTCAAGAAAAAA
ACCTGTTCTTCCGTATAAAGGAAGAGAAGGACGTGAAAACGCACCTAGTCCAGAATGT
CAGAACAGTCTTACCTTCACTGGGCACAAGCAGCATCAGCAACCCAGATGGCAGTCAC
CTTGACGTAGTAGTCTTAAAGAAGCTGAAGAGTCAAAATTAGGTCCAGATATTGGGATT
TCAAAGGAAGATGATGAAAGACAGACAGACTCTAAAAAAGAAAGAACTATTTCCCAAGT
TTAAATAAAACAGATGTGATACATGGACAGGACAAATCAGATGTTCAAAACACTCAGCTA
ACAGTGGAAACGACAAAATAGAAGGCACTATTTCTATCCCCTGGAAGAAACAAAATT
ACAGCTATTTCCCGATGAAACGATCAATGCTTGTAAAAAATGAAGTCCAGAAGCTTC
GTCTATTTCCCGGGAAGAAAGCTGGTGGTGGGGTTAACCAAGATGTAGAGTACAGTTCA
ATCACGGACCAGCAATTGACGACGGAATGGCAATGCCAAGTTCAAAGATCACCGCTCT
CATAGCACAGATATTCCTTACATTGTGTGCGAAGCTGCAGTGAAGCTGAGCATAAAGAG
CAGTTTGCAGATATGCAAGATGAACACCATGTCGCTGAAGCAATTCCTCGAATCCCTCGC
TTGTCCCTAACCACTACTGACAGAAAATGGGATGGAAAACCTACTGTCTGTGAAGCCAGAT
CAAACCTTGGGATTCCCATCTCTCAGGTCAAAAAGTTTACATGGACATCTAGGAATGTG

AAATCCATTTCAGGAAAGTTAGACAGATCTGGACATGCCAGTAGTGAAGCAGCTTAGTA
ATTGTGTCTGGAATGACAGCAGAAGAAAAAAGGTTAAGAAAGAGAAAGCTTCCACAGAA
ACTGAATGCTAG

Restriction Sites:	Please inquire
ACCN:	NM_002420
Insert Size:	4800 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<u>NM_002420.4</u> , <u>NP_002411.3</u>
RefSeq Size:	5428 bp
RefSeq ORF:	4812 bp
Locus ID:	4308
UniProt ID:	<u>Q7Z4N2</u>
Cytogenetics:	15q13.3
Domains:	ion_trans
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Gene Summary:

This gene encodes a member of the transient receptor potential melastatin subfamily of transient receptor potential ion channels. The encoded protein is a calcium permeable cation channel that is expressed in melanocytes and may play a role in melanin synthesis. Specific mutations in this gene are the cause autosomal recessive complete congenital stationary night blindness-1C. The expression of this protein is inversely correlated with melanoma aggressiveness and as such it is used as a prognostic marker for melanoma metastasis. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2011]

Transcript Variant: This variant (2) differs in the 5' UTR and lacks a portion of the 5' coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus, compared to isoform 1.