OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC332165

TRPM1 (NM_001252024) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: TRPM1 (NM_001252024) Human Untagged Clone

Tag: Tag Free

Symbol: TRPM1

Synonyms: CSNB1C; LTRPC1; MLSN1

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

>SC332165 representing NM_001252024.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGGTCAGAAATCTTGGATAGAGAAAACCTTTTGCAAACGGGAATGTATCTTTGTAATTCCTAGCATG
AAAGACTCTAACAGGTGTTGCTGTGGCCAGTTCACCAACCAGCATATCCCCCCTCTGCCAAGTGCAACA
CCCAGCAAAAATGAAGAGGAAAGCAAACAGGTGGAGACTCAGCCTGAGAAATGGTCTGTTGCCAAGCAC
ACCCAGAGCTACCCAACAGATTCCTATGGAGTTCTTGAATTCCAGGGTGGCGGATATTCCAATAAAGCC
ATGTATATCCGTGTATCCTATGACACCAAGCCAGACTCACTGCTCCATCTCATGGTGAAAGATTGGCAG
CTGGAACTCCCCAAGCTCTTAATATCTGTGCATGGAGGCCTCCAGAACTTTGAGATGCAGCCCAAGCTG
AAACAAGTCTTTGGGAAAGGCCTGATCAAGGCTGCTATGACCACCGGGGCCTGGATCTTCACCGGGGGT
GTCAGCACAGGTGTTATCAGCCACGTAGGGGATGCCTTGAAAGACCACTCCTCCAAGTCCAGAGGCCGG
GTTTGTGCTATAGGAATTGCTCCATGGGGCATCGTGGAGAATAAGGAAGACCTGGTTGGAAAGGATGTA
ACAAGAGTGTACCAGACCATGTCCAACCCTCTAAGTAAGCTCTCTGTGCTCAACAACTCCCACACCCAC
TTCATCCTGGCTGACAATGGCACCCTGGGCAAGTATGGCGCCGAGGTGAAGCTGCGAAGGCTGCTGGAA
AAGCACATCTCCCTGCAGAAGATCAACACAAGACTGGGGCAGGGCGTGCCCCTCGTGGGTCTCGTGGTG
GAGGGGGGCCCTAACGTGGTGTCCATCGTCTTGGAATACCTGCAAGAAGAGCCTCCCATCCCTGTGGTG
ATTTGTGATGGCAGCGGACGTGCCTCGGACATCCTGTCCTTTGCGCACAAGTACTGTGAAGAAGGCGGA
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GAGCAAGCGATGCTAGATGCTTTAGTCTTAGATCGTGTCGACTTTGTGAAGCTCCTGATTGAAAACGGA
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AACACACTTCATCTGCTGGTGAGGGATGTGAAAAAGAGCAACCTTCCGCCTGATTACCACATCAGCCTC
ATAGACATCGGGCTCGTGCTGGAGTACCTCATGGGAGGAGCCTACCGCTGCAACTACACTCGGAAAAAC
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GATGATGAGCCTCCAGCTAAAGGGAAGAAAAAGAAAAAGAAGAAAAAGGAGGAAGAGATCGACATTGAT
GTGGACGACCCTGCCGTGAGTCGGTTCCAGTATCCCTTCCACGAGCTGATGGTGTGGGCAGTGCTGATG

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AAACGCCAGAAAATGGCAGTGTTCCTCTGGCAGCGAGGGGAAGAGAGCATGGCCAAGGCCCTGGTGGCC
TGCAAGCTCTACAAGGCCATGGCCCACGAGTCCTCCGAGAGTGATCTGGTGGATGACATCTCCCAGGAC
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TGGAACATCACAGATCTCGTGGCCATTTCCACATTCATGATTGGAGCAATTCTTCGCCTACAGAACCAG
CCCTACATGGGCTATGGCCGGGTGATCTACTGTGTGGATATCATCTTCTGGTACATCCGTGTCCTGGAC
ATCTTTGGTGTCAACAAGTATCTGGGGCCATACGTGATGATGATTGGAAAGATGATGATCGACATGCTG
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GAGGAGAAGCCCTCTTGGAAACTGGCCCGAAACATCTTCTACATGCCCTACTGGATGATCTATGGAGAG
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TCCACGTCACCAGGGACAGGAGTCAGGAAAAAAACCTGTTCCTTCCGTATAAAGGAAGAGAAGGACGTG
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CCAGATGGCAGTCACCTTGCAGTAGATGACTTAAAGAACGCTGAAGAGTCAAAATTAGGTCCAGATATT
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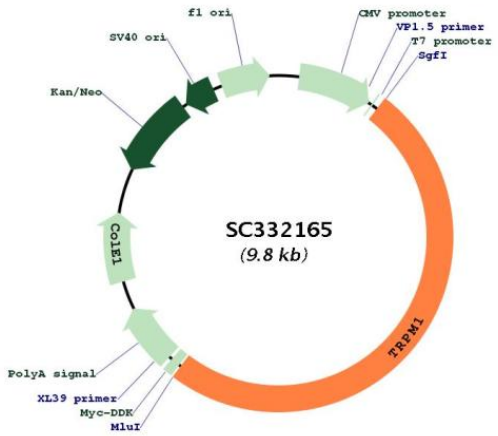
ACAAATATAGAAGGCACTATTTCCTATCCCCTGGAAGAAACCAAAATTACACGCTATTTCCCCGATGAA
ACGATCAATGCTTGTAAAACAATGAAGTCCAGAAGCTTCGTCTATTCCCGGGGAAGAAAGCTGGTCGGT
GGGGTTAACCAGGATGTAGAGTACAGTTCAATCACGGACCAGCAATTGACGACGGAATGGCAATGCCAA
GTTCAAAAGATCACGCGCTCTCATAGCACAGATATTCCTTACATTGTGTCGGAAGCTGCAGTGCAAGCT
GAGCATAAAGAGCAGTTTGCAGATATGCAAGATGAACACCATGTCGCTGAAGCAATTCCTCGAATCCCT
CGCTTGTCCCTAACCATTACTGACAGAAATGGGATGGAAAACTTACTGTCTGTGAAGCCAGATCAAACT
TTGGGATTCCCATCTCTCAGGTCAAAAAGTTTACATGGACATCCTAGGAATGTGAAATCCATTCAGGGA
AAGTTAGACAGATCTGGACATGCCAGTAGTGTAAGCAGCTTAGTAATTGTGTCTGGAATGACAGCAGAA
GAAAAAAAGGTTAAGAAAGAGAAAGCTTCCACAGAAACTGAATGCTAG

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_001252024
Insert Size:	4878 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_001252024.1
RefSeq Size:	5810 bp
RefSeq ORF:	4878 bp

Locus ID:	4308
UniProt ID:	Q7Z4N2
Cytogenetics:	15q13.3
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
MW:	184.8 kDa
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 (3) differs in the 5' UTR and uses an alternate exon in the 5' coding region. These differences cause translation initiation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is shorter than isoform 1.