

## Product datasheet for **RC231778**

### TRPM1 (NM\_001252030) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TRPM1 (NM\_001252030) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TRPM1  
**Synonyms:** CSNB1C; LTRPC1; MLSN1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC231778 representing NM\_001252030  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAAGACTCTAACAGGTGTTGCTGTGGCCAGTTCACCAACCAGCATATCCCCCTCTGCCAAGTGCAA  
CACCCAGCAAAAATGAAGAGGAAAGCAAACAGGTGGAGACTCAGCCTGAGAAATGGTCTGTTGCCAAGCA  
CACCCAGAGCTACCCAACAGATTCCTATGGAGTCTTGAATTCAGGGTGGCGGATATCCAATAAAGCC  
ATGGTGAGAAAGCATTACAGACATGGTGCCACTAGGATCACAGCTTTCATTGGCGGCCAGTCTCCAGCC  
CCAAACTGCAGATACCTGGTCTTCTTCATGGCTGTGGCTCAATCTTCTAGATATTTTCATTGAAAAACCA  
AGAGATATATCTGTGCACATGGCTTTTAGCCATGAGGCTTGAAACTGGACACCACTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231778 representing NM\_001252030  
**Red=Cloning site Green=Tags(s)**

MKDSNRCCCGQFTNQHIPPLPSATPSKNEEESKQVETQPEKWSVAKHTQSYPTDSYGVLEFQGGGYSNKA  
MVRKAFRHGATRITAFIGGQSPSPKLQIPGLLHGCGSIFLDISLKNQEIYLCTWLLAMRLGNWTPL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001252030.2</a>
<b>RefSeq Size:</b>	1002 bp
<b>RefSeq ORF:</b>	411 bp
<b>Locus ID:</b>	4308
<b>UniProt ID:</b>	<a href="#">Q7Z4N2</a>
<b>Cytogenetics:</b>	15q13.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
<b>MW:</b>	15.5 kDa
<b>Gene Summary:</b>	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]