

Product datasheet for **RG231778**

TRPM1 (NM_001252030) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRPM1 (NM_001252030) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TRPM1
Synonyms: CSNB1C; LTRPC1; MLSN1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231778 representing NM_001252030
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGACTCTAACAGGTGTTGCTGTGGCCAGTTCACCAACCAGCATATCCCCCTCTGCCAAGTGCAA
CACCCAGCAAAAATGAAGAGGAAAGCAAACAGGTGGAGACTCAGCCTGAGAAATGGTCTGTTGCCAAGCA
CACCCAGAGCTACCAACAGATTCCTATGGAGTCTTGAATTCAGGGTGGCGGATTTCCAATAAAGCC
ATGGTGAGAAAGGCATTCAGACATGGTGCCACTAGGATCACAGCTTTCATTGGCGGCCAGTCTCCCAGCC
CCAAACTGCAGATACCTGGTCTTCTTCATGGCTGTGGCTCAATCTCCTAGATATTTATTGAAAAACCA
AGAGATATATCTGTGCACATGGCTTTTAGCCATGAGGCTTGAAACTGGACACCACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231778 representing NM_001252030
Red=Cloning site Green=Tags(s)
MKDSNRCCCGFTNQHIPPLPSATPSKNEEESKQVETQPEKWSVAKHTQSYPTDSYGVLEFQGGGYSNKA
MVRKAFRHGATRITAFIGGQSPSPKLQIPGLLHGCGSIFLDISLNQEIYLCTWLLAMRLGNWTPPL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

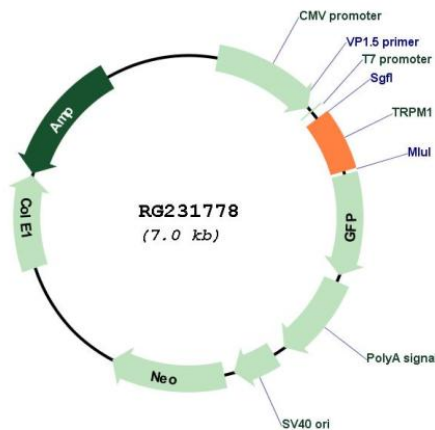


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001252030

ORF Size: 408 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001252030.2</u>
RefSeq Size:	1002 bp
RefSeq ORF:	411 bp
Locus ID:	4308
UniProt ID:	<u>Q7Z4N2</u>
Cytogenetics:	15q13.3
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]