

Product datasheet for **RG213931**

TRPM3 (NM_001007470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPM3 (NM_001007470) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRPM3
Synonyms:	GON-2; LTRPC3; MLSN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213931 representing NM_001007470 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATGTGCGAGTATCTTTTGATACAAAACCTGATCTCCTTTACACCTGATGACCAAGGAATGGCAGT
TGGAGCTTCCAAGCTTCTCATCTGTCCATGGGGCCGCAGAACTTTGAACTCCAGCCAAAACCTCAA
GCAAGTCTTTGGAAAGGGCTCATCAAAGCAGCAATGACAACCTGGAGCGTGGATATTCCTGGAGGGTT
AACACAGGTGTTATTCGTCATGTTGGCGATGCCTTGAAGGATCATGCCTCTAAGTCTCGAGGAAAGATAT
GCACCATAGGTATTGCCCCCTGGGAATTGTGGAAAACAGGAGGACCTCATTGGAAGAGATGTTGTCCG
GCCATACAGACCATGTCCAATCCCATGAGCAAGCTCACTGTTCTCAACAGCATGCATTCCTCACTTCACT
CTGGCTGACAACGGGACCACTGGAAAATATGGAGCAGAGGTGAACTTCGAAGACAACCTGAAAAAGCATA
TTTCACTCCAGAAGATAAACACAAGATGCCTGCCGTTTTTCTCTTTGACTCCCGCTTGTTTTATTCATT
TTGGGGTAGTTGCCAGTTAGACTCAGTTGGAATCGGTCAAGGTGTTCTGTGGTGGCACTCATAGTGGAA
GGAGGACCCAATGTGATCTCGATTGTTTGGAGTACCTTCGAGACACCCCTCCCGTGCCAGTGGTTGTCT
GTGATGGAGTGGACGGGCATCGGACATCTGGCCTTTGGGCATAAATACTCAGAAGAAGGCGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213931 representing NM_001007470
 Red=Cloning site Green=Tags(s)

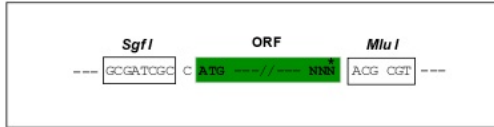
MYVRVSDTKPDLLLHLMTKEWQLELPKLLISVHGGLQNFELQPKLKQVFGKGLIKAAMTTGAWIFTGGV
 NTGVIRHVGDALKDHASKSRGKICTIGIAPWGIENQEDLIGRDVVRPYQTMSNPMSKLTVLNSMHSFI
 LADNGTTGKYGAEVKLRRLQLEKHISLQKINTRCLPFFSLDSRLFYSFWGSCQLDSVIGIQGVPPVALIVE
 GGPNVISIVLEYLRDTPPVVCDGSGRASDILAFGHKYSEEG

TRTRPLE - GFP Tag - V

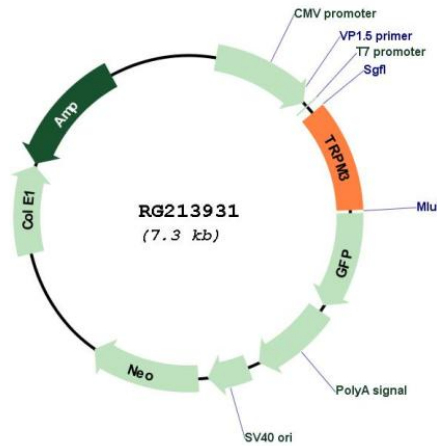
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001007470

ORF Size: 765 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:	NM_001007470.2
RefSeq Size:	1378 bp
RefSeq ORF:	768 bp
Locus ID:	80036
Cytogenetics:	9q21.12-q21.13
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Gene Summary:	The product of this gene belongs to the family of transient receptor potential (TRP) channels. TRP channels are cation-selective channels important for cellular calcium signaling and homeostasis. The protein encoded by this gene mediates calcium entry, and this entry is potentiated by calcium store depletion. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]