

## Product datasheet for **RG217613**

### TRPM3 (NM\_206947) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRPM3 (NM_206947) 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:	>RG217613 representing NM_206947 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTATGTGCGAGTATCTTTTGATACAAAACCTGATCTCCTCTTACACCTGATGACCAAGGAATGGCAGT  
TGGAGCTTCCCAAGCTTCTCATCTGTCCATGGGGCCGCAGAACTTTGAACTCCAGCCAAAACCTCAA  
GCAAGTCTTTGGAAAGGGCTCATCAAAGCAGCAATGACAACCTGGAGCGTGGATATTCAGTGGAGGGTT  
AACACAGGTGTTATTCGTCATGTTGGCGATGCCTTGAAGGATCATGCCTCTAAGTCTCGAGGAAAGATAT  
GCACCATAGGTATTGCCCTGGGAATTGTGGAAAACAGGAGGACCTCATTGGAAGAGATGTTGTCCG  
GCCATACAGACCATGTCCAATCCCATGAGCAAGCTCACTGTTCTCAACAGCATGCATTCACCTCATT  
CTGGCTGACAACGGGACCACTGGAAAATATGGAGCAGAGGTGAAACTTCGAAGACAACCTGAAAAAGCATA  
TTTCACTCCAGAAGATAAACACAAGATGCCTGCCGTTTTCTCTCTTGACTCCCGCTTGTTTTATTCATT  
TTGGGGTAGTTGCCAGTTAGACTCAGTTGGAATCGGTCAAGGTGTTTCTGTGGTGGCACTCATAGTGAA  
GGAGGACCCAATGTGATCTCGATTGTTTGGAGTACCTTCGAGACACCCCTCCCGTGCCAGTGGTTGTCT  
GTGATGGGAGTGGACGGGCATCGGACATCCTGGCCTTTGGGCATAAACTCAGAAGAAGGGGACTGAT  
AAATGAATCTTTGAGGGACAGCTGTTGGTGACTATACAGAAGACTTTACATACACTCGAACCCAAGCT  
CAGCATCTGTTTCATCCTCATGGAGTGCATGAAGAAGAAGGAATTGATTACGGTATTTCCGATGGGAT  
CAGAAGGACACCAGGACATTGATTTGGCTATCCTGACAGCTTTACTCAAAGGAGCCAATGCCTCGGCCCC  
AGACCAACTGAGCTTAGCTTTAGCCTGGAACAGAGTCGACATCGCTCGCAGCCAGATCTTTATTTACGGG  
CAACAGTGGCCGGTGGGATCTCTGGAGCAAGCCATGTTGGATGCCTTAGTTCTGGACAGAGTGGATTTG  
TGAAATTAATCATAGAGAATGGAGTAAGCATGCACCGTTTTCTCACCATCTCCAGACTAGAGGAATTGTA  
CAATACGAGACATGGCCCTCAAATACATTGTACCACTGGTCAGGGATGTCAAAAAGGGGAACCTGCC  
CCAGACTACAGAATCAGCCTGATTGACATCGGCCTGGTATCGAGTACCTGATGGCGGGGCTTATCGCT  
GCAACTACACGCGCAAGCGCTTCCGACCTCTACCACAACCTCTTCGGCCCCAAGAGGGATGATATTCC  
CTTGAGGGCAGGAAGAAAGACAACCAAGAAACGTGAAGAAGAGGTGGACATTGACTTGGATGATCCTGAG



[View online »](#)

ATCAACCACTTCCCCTTCCCTTTCCATGAGCTCATGGTGTGGGCTGTTCTCATGAAGCGGCAGAAGATGG  
 CCCTGTTCTTCTGGCAGCACGGTGAGGAGGCCATGGCCAAGGCCCTGGTGGCCTGCAAGCTCTGCAAAGC  
 CATGGCTCATGAGGCCTCTGAGAACGACATGGTTGACGACATTTCCAGGAGCTGAATCACAAATCCAGA  
 GACTTTGGCCAGCTGGCTGTGGAGCTCTGGACCAGTCTACAAGCAGGACGAACAGCTGGCCATGAAAC  
 TGCTGACGTATGAGCTGAAGAACTGGAGCAACGCCACGTGCCTGCAGCTTGCCGTGGCTGCCAAACCCG  
 CGACTTCATCGCGCACACGTGCAGCCAGATGCTGCTCACCGACATGTGGATGGGCCGGCTCCGCATGCGC  
 AAGAACTCAGGCCTCAAGTAATTTCTGGGAATTTACTTCTTCAATTCTCAGCTTGGAGTTCAAGA  
 ACAAGAGCGACATGCCCTATATGTCTCAGGCCAGGAAATCCACCTCCAAGAGAAGGAGGCAGAAGAACC  
 AGAGAAGCCACAAAGGAAAAAGAGGAAGGACATGGAGCTCACAGCAATGTTGGGACGAAACAACGGG  
 GAGTCTCCAGGAAGAAGGATGAAGAGGAAGTTGAGAGCAAGCACCGGTTAATCCCCCTCGGCAGAAAAA  
 TCTATGAATTCTACAATGCACCCATCGTGAAGTTCTGGTCTACACACTGGCGTATATCGGATACCTGAT  
 GCTCTTCAACTATATCGTGTAGTGAAGATGGAACGCTGGCCGTCACCCAGGAATGGATCGTAATCTCC  
 TATATTTTACCCTGGGAATAGAAAAGATGAGAGAGATTCTGATGTCAGAGCCAGGAAGTTGCTACAGA  
 AAGTGAAGGTATGGCTGCAGGAGTACTGGAATGTCACGGACCTCATCGCCATCCTTCTGTTTTCTGTCGG  
 AATGATCCTTCGTCTCAAGACCAGCCCTCAGGAGTGACGGGAGGGTCACTACTGCGTGAACATCATT  
 TACTGGTATATCCGTCTCCTAGACATCTTCGGCGTGAACAAGTATTTGGGCCCGTATGTAATGATGATTG  
 GAAAAATGATGATAGACATGATGTAATTTGTCATCATTATGCTGGTGGTCTGATGAGCTTTGGGTCGC  
 CAGGCAAGCCATCCTTTTTCCCAATGAGGAGCCATCATGGAACTGGCCAAGAACATCTTCTACATGCC  
 TATTGGATGATTTATGGGAAGTGTTCGGGACCAGATAGACCCTCCCTGTGGACAGAATGAGACCCGAG  
 AGGATGGTAAAAAATCCAGCTGCCTCCCTGCAAGACAGGAGCTTGGATCGTGCCGGCCATCATGGCCTG  
 CTACCTTTAGTGGCAACATCTTGCTGGTCAACCTCCTCATTGCTGTCTTTAACAAATACATTTTTGAA  
 GTAAAAATCGATATCCAACCAAGTCTGGAAGTTTCAGAGGTATCAGCTCATCATGACTTTCCATGAAAGGC  
 CAGTTCTGCCCCACCCTGATCATCTTCAGCCACATGACCATGATTTCCAGCACCTGTGCTCCGATG  
 GAGGAAACACGAGAGCGACCCGGATGAAAGGGACTACGGCCTGAAACTTTCATAACCCGATGATGAGCTC  
 AAGAAAGTACATGACTTTGAAGGCAATGCATAGAAGAATACTTCAGAGAAAAGGATGATCGGTTCAACT  
 CATCTAATGATGAGAGGATACGGGTGACTTCAGAAAGGGTGGAGAACATGTCTATGCGGCTGGAGGAAGT  
 CAACGAGAGAGAGCACTCCATGAAGGCTTCACTCCAGACCGTGGACATCCGGCTGGCGCAGCTGGAAGAC  
 CTTATCGGGCGCATGGCCACGGCCCTGGAGCGCTGACAGGTCTGGAGCGGGCCGAGTCCAACAAAAATCC  
 GCTCGAGGACCTCGTCACTGCACGGACGCCCTACATTGTCCGTGAGAGCAGCTTCAACAGCCAGGA  
 AGGGAACACCTTCAAGCTCCAAGAGAGTATAGACCCTGCAGGTGAGGAGACCATGTCCCAACTTCTCCA  
 ACCTTAATGCCCGTATGCGAAGCCATTCTTTCTATTCGGTCAATATGAAAGACAAGGTGGTATAGAAA  
 AGTTGAAAGTATTTTTAAAGAAAGTCCCTGAGCCTACACCCGGCTACTAGTCCCACTCTGTAGCAAA  
 AGAACCCAAAGCTCCTGCAGCCCCTGCCAACACCTTGGCCATTGTTCTGATTCCAGAAGACCATCATCG  
 TGTATAGACATCTATGTCTCTGCTATGGATGAGCTCCACTGTGATATAGACCCTCTGGACAATCCGTGA  
 ACATCCTTGGGCTGGGCGAGCCAAGCTTTTCAACTCCAGTACCTTCCACAGCCCCTTCAAGTAGTCCTA  
 TGCAACACTTGCACCCACAGACAGACCTCCAAGCCGGAGCATTGATTTTGAGGACATCACCTCCATGGAC  
 ACTAGATCTTTTTCTTCACTACACCCACCTCCAGAATGCCAAAACCCCTGGGACTCAGAGCCTCCGA  
 TGTACCACACCATGAGCGTTCAAAAGTAGCCGCTACCTAGCCACCACACCCCTTCTTCTAGAAGAGGC  
 TCCCATTGTGAAATCTCATAGCTTTATGTTTTCCCCTCAAGGAGCTATTATGCCAACTTTGGGGTGCCT  
 GTAAAAACAGCAGAATACACAAGTATTACAGACTGTATTGACACAAGGTGTGCAATGCCCTCAAGCAA  
 TTGCGGACAGAGCTGCCTTCCCTGGAGGCTTGGAGACAAAGTGGAGGACTTAACTTGTGCCATCCAGA  
 GCGAGAAGCAGAAGTGAATCACCACAGCTCTGACAGTGAAGGAAATGAGGCCAAAGGCCGACAGCCACC  
 ATTGCAATATCTCCAGGAGGGTGATAACTCAGAGAGAACCCTGTCCAACAACATCACTGTTCCCAAGA  
 TAGAGCGCGCCAACAGCTACTCGGCAGAGGAGCCAAGTGCCCATATGCACACACCAGGAAGAGCTTCTC  
 CATCAGTGACAACTCGACAGGCAGCGAACACAGCAAGCCTGCGAAATCCCTTCCAGAGAAGCAAGTCC  
 TCCAAGCCGAGGGCCGAGGGGACAGCCTGTCCATGAGGAGACTGCCAGAACATCGGCTTCCAAAGCT  
 TTGAAAGCAAGCACAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG217613 representing NM\_206947  
 Red=Cloning site Green=Tags(s)

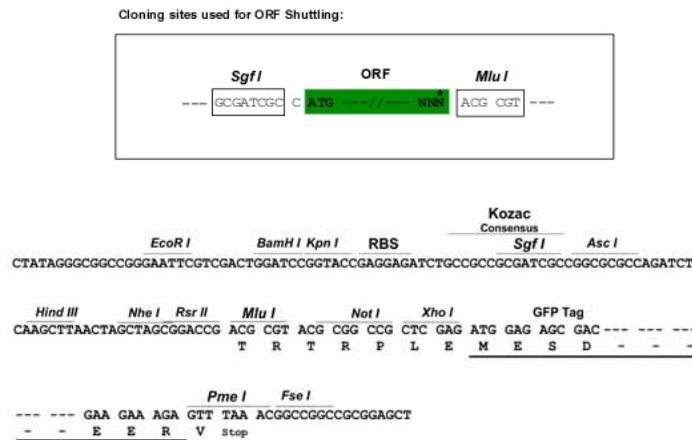
```

MYVRVSFDTKPDLLLHLMTKEWQLELPKLLISVHGGLQNFELQPKLKQVFGKGLIKAAMTTGAWIFTGGV
NTGVIIRHVGDALDKHASKSRGKICTIGIAPWGIENQEDLIGRDVVRPYQTMSNPM SKLTVLNSMHSHF I
LADNGTTGKYGAEVKLRRLQLEKHISLQKINTRCLPFFSLDSRLFYSFWGSCQLDSVIGQGVPPVVALIVE
GGPNVISIVLEYLDRTPVPVPPVCDGSGRASDILAFGHKYSEEGGLINESLRDQLLVTIQKFTFTYTRTQA
QHLFIILMECMKKKELITVFRMGSEGHQDIDLAILTALLKGANASAPDQLSLALAWNVRVDIARSQIFIYG
QQWPVGSLEQAMLDALVLDRVDFVKLLIENGVS MHRFLTISRLEELYNTRHGPSNTLYHLVRDVKKGNLP
PDYRISLIDIGLVIEYLMGGAYRCNYTRKFRFTLYHNLFGPKRDDIPLRRGRKTTKKREEEVDIDLDDPE
INHFPPPFHELMVWAVLMKRQKMAFFWQHGEEMAKALVACKLCKAMAHEASENDMVDDISQELNHSR
DFGQLAVELLDQSYKQDEQLAMKLLTYELKNWSNATCLQLAVA AKHRDFAHTCSQMLL TDMWMGR LMR
KNSGLKVLIGILLPPSILSLEFKNKDDMPYMSQAQEIHLQEKEAEPEKPTKEKEEEDMELTAM LGRNNG
ESSRKKDEEEVQSKHRLIPLGRKIYEFYNAPIVKFWFYTLAYIGYLMFNIVLVKMERWPSTQEWIVIS
YIFTLGIEKMREILMSEPGKLLQKVKVWLQEYWNVTDLIAILLFSVGMILRLQDQPPFRSDGRVIYCVNII
YWYIRLLDIFGVNKYLGYPVMMIGKMMIDMMYFVIIMLVVLSFVARQAILFPNEEPSWKLAKNIFYMP
YWMIYGEVFADQIDPPCGQNETREDGKIIQLPPCKTGAWIVPAIMACYLLVANILLVNLIAVFNNTFFE
VKSISNQVWKFQRYQLIMTFHERPVLPPPLIIFSHMTMIFQHLCCRWRKHESDPDERDYGLKLFITDDEL
KKVHDFEEQCIEEYFREKDDRFNSSNDERIRVTSERVENMSMRLEE VNEREHSMKASLQTVDIRLAQLED
LIGRMATALERLTGLERAESNKIRSRTSSDCTDAAYIVRQSSFN SQEGNTFKLQESIDPAGEETMSPTSP
TLMPRMRSHSFYSVNMKDKGGIEKLESIFKERSLSLHRATSSHSVAKEPKAPAAPANTLAI VPD SRRPSS
CIDIYVSAMDELHCDIDPLDNSVNILGLGEPSTPVPSTAPSSSAYATLAPTDRPPSRSIDFEDITSMD
TRSFSSDYTHLPECQNPWDSEPPMYHTIERSKSSRYLATTPFLLEEAPIVKSHSFMFSPSRSEYANFGVP
VKTAEYTSITDCIDTRCVNAPQAIADRAAFP GGLGDKVEDLTCCHPERE AELSHPSSDSEENEAKGRRAT
IAISSQEGDNSERTLSNNITVPKIERANSYSAEEPSAPYAHRKSF SISKLDLDRQNTASLRNPFQRKSKS
SKPEGRGDSL SMRRLSRTSAFQSFESKHN
  
```

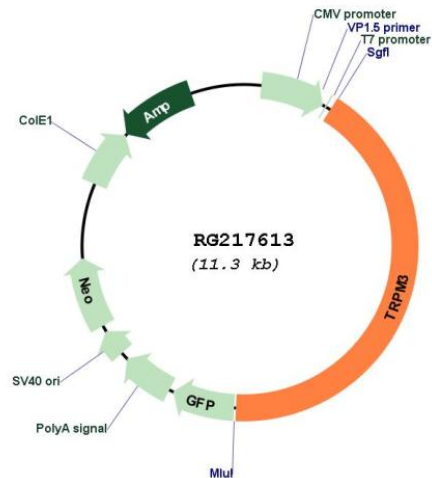
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



**ACCN:** NM\_206947

**ORF Size:** 4707 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:**

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\\_206947.4](#)

RefSeq Size:	5985 bp
RefSeq ORF:	4710 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]