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 RG218008

TRPM3 (NM_020952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPM3 (NM_020952) 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:

```
>RG218008 representing NM_020952
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTATGTGCGAGTATCTTTTGATACAAAACCTGATCTCCTCTTACACCTGATGACCAAGGAATGGCAGT
TGGAGCTTCCCAAGCTTCTCATCTCTGTCCATGGGGGCCTGCAGAACTTTGAACTCCAGCCAAAACTCAA
GCAAGTCTTTGGGAAAGGGCTCATCAAAGCAGCAATGACAACTGGAGCGTGGATATTCACTGGAGGGGTT
AACACAGGTGTTATTCGTCATGTTGGCGATGCCTTGAAGGATCATGCCTCTAAGTCTCGAGGAAAGATAT
GCACCATAGGTATTGCCCCCTGGGGAATTGTGGAAAACCAGGAGGACCTCATTGGAAGAGATGTTGTCCG
GCCATACCAGACCATGTCCAATCCCATGAGCAAGCTCACTGTTCTCAACAGCATGCATTCCCACTTCATT
CTGGCTGACAACGGGACCACTGGAAAATATGGAGCAGAGGTGAAACTTCGAAGACAACTGGAAAAGCATA
TTTCACTCCAGAAGATAAACACAAGAATCGGTCAAGGTGTTCCTGTGGTGGCACTCATAGTGGAAGGAGG
ACCCAATGTGATCTCGATTGTTTTGGAGTACCTTCGAGACACCCCTCCCGTGCCAGTGGTTGTCTGTGAT
GGGAGTGGACGGGCATCGGACATCCTGGCCTTTGGGCATAAATACTCAGAAGAAGGCGGACTGATAAATG
AATCTTTGAGGGACCAGCTGTTGGTGACTATACAGAAGACTTTCACATACACTCGAACCCAAGCTCAGCA
TCTGTTCATCATCCTCATGGAGTGCATGAAGAAGAAGGAATTGATTACGGTATTTCGGATGGGATCAGAA
GGACACCAGGACATTGATTTGGCTATCCTGACAGCTTTACTCAAAGGAGCCAATGCCTCGGCCCCAGACC
AACTGAGCTTAGCTTTAGCCTGGAACAGAGTCGACATCGCTCGCAGCCAGATCTTTATTTACGGGCAACA
GTGGCCGGTGGGATCTCTGGAGCAAGCCATGTTGGATGCCTTAGTTCTGGACAGAGTGGATTTTGTGAAA
TTACTCATAGAGAATGGAGTAAGCATGCACCGTTTTCTCACCATCTCCAGACTAGAGGAATTGTACAATA
CGAGACATGGGCCCTCAAATACATTGTACCACTTGGTCAGGGATGTCAAAAAGGGGAACCTGCCCCCAGA
CTACAGAATCAGCCTGATTGACATCGGCCTGGTGATCGAGTACCTGATGGGCGGGGCTTATCGCTGCAAC
TACACGCGCAAGCGCTTCCGGACCCTCTACCACAACCTCTTCGGCCCCAAGAGGCCCAAAGCCTTGAAAC
TGCTGGGAATGGAGGATGATATTCCCTTGAGGCGAGGAAGAAAGACAACCAAGAAACGTGAAGAAGAGGT
GGACATTGACTTGGATGATCCTGAGATCAACCACTTCCCCTTCCCTTTCCATGAGCTCATGGTGTGGGCT
```

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

GTTCTCATGAAGCGGCAGAAGATGGCCCTGTTCTTCTGGCAGCACGGTGAGGAGGCCATGGCCAAGGCCC
TGGTGGCCTGCAAGCTCTGCAAAGCCATGGCTCATGAGGCCTCTGAGAACGACATGGTTGACGACATTTC
CCAGGAGCTGAATCACAATTCCAGAGACTTTGGCCAGCTGGCTGTGGAGCTCCTGGACCAGTCCTACAAG
CAGGACGAACAGCTGGCCATGAAACTGCTGACGTATGAGCTGAAGAACTGGAGCAACGCCACGTGCCTGC
AGCTTGCCGTGGCTGCCAAACACCGCGACTTCATCGCGCACACGTGCAGCCAGATGCTGCTCACCGACAT
GTGGATGGGCCGGCTCCGCATGCGCAAGAACTCAGGCCTCAAGGTAATTCTGGGAATTCTACTTCCTCCT
TCAATTCTCAGCTTGGAGTTCAAGAACAAAGACGACATGCCCTATATGTCTCAGGCCCAGGAAATCCACC
TCCAAGAGAAGGAGGCAGAAGAACCAGAGAAGCCCACAAAGGAAAAAGAGGAAGAGGACATGGAGCTCAC
AGCAATGTTGGGACGAAACAACGGGGAGTCCTCCAGGAAGAAGGATGAAGAGGAAGTTCAGAGCAAGCAC
CGGTTAATCCCCCTCGGCAGAAAAATCTATGAATTCTACAATGCACCCATCGTGAAGTTCTGGTTCTACA
CACTGGCGTATATCGGATACCTGATGCTCTTCAACTATATCGTGTTAGTGAAGATGGAACGCTGGCCGTC
CACCCAGGAATGGATCGTAATCTCCTATATTTTCACCCTGGGAATAGAAAAGATGAGAGAGATTCTGATG
TCAGAGCCAGGGAAGTTGCTACAGAAAGTGAAGGTATGGCTGCAGGAGTACTGGAATGTCACGGACCTCA
TCGCCATCCTTCTGTTTTCTGTCGGAATGATCCTTCGTCTCCAAGACCAGCCCTTCAGGAGTGACGGGAG
GGTCATCTACTGCGTGAACATCATTTACTGGTATATCCGTCTCCTAGACATCTTCGGCGTGAACAAGTAT
TTGGGCCCGTATGTAATGATGATTGGAAAAATGATGATAGACATGATGTACTTTGTCATCATTATGCTGG
TGGTTCTGATGAGCTTTGGGGTCGCCAGGCAAGCCATCCTTTTTCCCAATGAGGAGCCATCATGGAAACT
GGCCAAGAACATCTTCTACATGCCCTATTGGATGATTTATGGGGAAGTGTTTGCGGACCAGATAGACCCT
CCCTGTGGACAGAATGAGACCCGAGAGGATGGTAAAATAATCCAGCTGCCTCCCTGCAAGACAGGAGCTT
GGATCGTGCCGGCCATCATGGCCTGCTACCTCTTAGTGGCAAACATCTTGCTGGTCAACCTCCTCATTGC
TGTCTTTAACAATACATTTTTTGAAGTAAAATCGATATCCAACCAAGTCTGGAAGTTTCAGAGGTATCAG
CTCATCATGACTTTCCATGAAAGGCCAGTTCTGCCCCCACCACTGATCATCTTCAGCCACATGACCATGA
TATTCCAGCACCTGTGCTGCCGATGGAGGAAACACGAGAGCGACCCGGATGAAAGGGACTACGGCCTGAA
ACTCTTCATAACCGATGATGAGCTCAAGAAAGTACATGACTTTGAAGAGCAATGCATAGAAGAATACTTC
AGAGAAAAGGATGATCGGTTCAACTCATCTAATGATGAGAGGATACGGGTGACTTCAGAAAGGGTGGAGA
ACATGTCTATGCGGCTGGAGGAAGTCAACGAGAGAGAGCACTCCATGAAGGCTTCACTCCAGACCGTGGA
CATCCGGCTGGCGCAGCTGGAAGACCTTATCGGGCGCATGGCCACGGCCCTGGAGCGCCTGACAGGTCTG
GAGCGGGCCGAGTCCAACAAAATCCGCTCGAGGACCTCGTCAGACTGCACGGACGCCGCCTACATTGTCC
GTCAGAGCAGCTTCAACAGCCAGGAAGGGAACACCTTCAAGCTCCAAGAGAGTATAGACCCTGCAGGTGA
GGAGACCATGTCCCCAACTTCTCCAACCTTAATGCCCCGTATGCGAAGCCATTCTTTCTATTCGGTCAAT
ATGAAAGACAAAGGTGGTATAGAAAAGTTGGAAAGTATTTTTAAAGAAAGGTCCCTGAGCCTACACCGGG
CTACTAGTTCCCACTCTGTAGCAAAAGAACCCAAAGCTCCTGCAGCCCCTGCCAACACCTTGGCCATTGT
TCCTGATTCCAGAAGACCATCATCGTGTATAGACATCTATGTCTCTGCTATGGATGAGCTCCACTGTGAT
ATAGACCCTCTGGACAATTCCGTGAACATCCTTGGGCTAGGCGAGCCAAGCTTTTCAACTCCAGTACCTT
CCACAGCCCCTTCAAGTAGTGCCTATGCAACACTTGCACCCACAGACAGACCTCCAAGCCGGAGCATTGA
TTTTGAGGACATCACCTCCATGGACACTAGATCTTTTTCTTCAGACTACACCCACCTCCCAGAATGCCAA
AACCCCTGGGACTCAGAGCCTCCGATGTACCACACCATTGAGCGTTCCAAAAGTAGCCGCTACCTAGCCA
CCACACCCTTTCTTCTAGAAGAGGCTCCCATTGTGAAATCTCATAGCTTTATGTTTTCCCCCTCAAGGAG
CTATTATGCCAACTTTGGGGTGCCTGTAAAAACAGCAGAATACACAAGTATTACAGACTGTATTGACACA
AGGTGTGTCAATGCCCCTCAAGCAATTGCGGACAGAGCTGCCTTCCCTGGAGGTCTTGGAGACAAAGTGG
AGGACTTAACTTGCTGCCATCCAGAGCGAGAAGCAGAACTGAGTCACCCCAGCTCTGACAGTGAGGAGAA
TGAGGCCAAAGGCCGCAGAGCCACCATTGCAATATCCTCCCAGGAGGGTGATAACTCAGAGAGAACCCTG
TCCAACAACATCACTGTTCCCAAGATAGAGCGCGCCAACAGCTACTCGGCAGAGGAGCCAAGTGCGCCAT
ATGCACACACCAGGAAGAGCTTCTCCATCAGTGACAAACTCGACAGGCAGCGGAACACAGCAAGCCTGCG
AAATCCCTTCCAGAGAAGCAAGTCCTCCAAGCCGGAGGGCCGAGGGGACAGCCTGTCCATGAGGAAACTG
TCCAGAACATCGGCTTTCCAAAGCTTTGAAAGCAAGCACACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

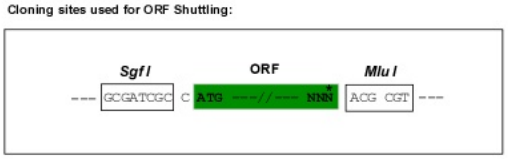
>RG218008 representing NM_020952
Red=Cloning site Green=Tags(s)

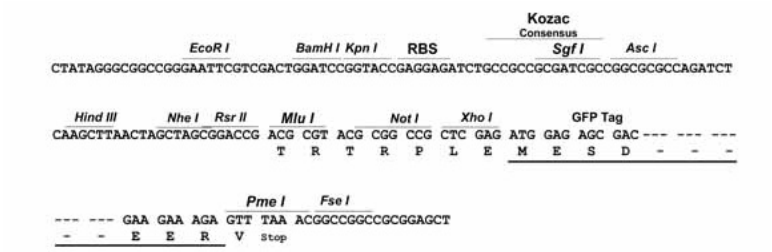
MYVRVSFDTKPDLLLHLMTKEWQLELPKLLISVHGGLQNFELQPKLKQVFGKGLIKAAMTTGAWIFTGGV
NTGVIRHVGDALKDHASKSRGKICTIGIAPWGIVENQEDLIGRDVVRPYQTMSNPMSKLTVLNSMHSHFI
LADNGTTGKYGAEVKLRRQLEKHISLQKINTRIGQGVPVVALIVEGGPNVISIVLEYLRDTPPVPVVVCD
GSGRASDILAFGHKYSEEGGLINESLRDQLLVTIQKTFTYTRTQAQHLFIILMECMKKKELITVFRMGSE
GHQDIDLAILTALLKGANASAPDQLSLALAWNRVDIARSQIFIYGQQWPVGSLEQAMLDALVLDRVDFVK
LLIENGVSMHRFLTISRLEELYNTRHGPSNTLYHLVRDVKKGNLPPDYRISLIDIGLVIEYLMGGAYRCN
YTRKRFRTLYHNLFGPKRPKALKLLGMEDDIPLRRGRKTTKKREEEVDIDLDDPEINHFPFPFHELMVWA
VLMKRQKMALFFWQHGEEAMAKALVACKLCKAMAHEASENDMVDDISQELNHNSRDFGQLAVELLDQSYK
QDEQLAMKLLTYELKNWSNATCLQLAVAAKHRDFIAHTCSQMLLTDMWMGRLRMRKNSGLKVILGILLPP
SILSLEFKNKDDMPYMSQAQEIHLQEKEAEEPEKPTKEKEEEDMELTAMLGRNNGESSRKKDEEEVQSKH
RLIPLGRKIYEFYNAPIVKFWFYTLAYIGYLMLFNYIVLVKMERWPSTQEWIVISYIFTLGIEKMREILM
SEPGKLLQKVKVWLQEYWNVTDLIAILLFSVGMILRLQDQPFRSDGRVIYCVNIIYWYIRLLDIFGVNKY
LGPYVMMIGKMMIDMMYFVIIMLVVLMSFGVARQAILFPNEEPSWKLAKNIFYMPYWMIYGEVFADQIDP
PCGQNETREDGKIIQLPPCKTGAWIVPAIMACYLLVANILLVNLLIAVFNNTFFEVKSISNQVWKFQRYQ
LIMTFHERPVLPPPLIIFSHMTMIFQHLCCRWRKHESDPDERDYGLKLFITDDELKKVHDFEEQCIEEYF
REKDDRFNSSNDERIRVTSERVENMSMRLEEVNEREHSMKASLQTVDIRLAQLEDLIGRMATALERLTGL
ERAESNKIRSRTSSDCTDAAYIVRQSSFNSQEGNTFKLQESIDPAGEETMSPTSPTLMPRMRSHSFYSVN
MKDKGGIEKLESIFKERSLSLHRATSSHSVAKEPKAPAAPANTLAIVPDSRRPSSCIDIYVSAMDELHCD
IDPLDNSVNILGLGEPSFSTPVPSTAPSSSAYATLAPTDRPPSRSIDFEDITSMDTRSFSSDYTHLPECQ
NPWDSEPPMYHTIERSKSSRYLATTPFLLEEAPIVKSHSFMFSPSRSYYANFGVPVKTAEYTSITDCIDT
RCVNAPQAIADRAAFPGGLGDKVEDLTCCHPEREAELSHPSSDSEENEAKGRRATIAISSQEGDNSERTL
SNNITVPKIERANSYSAEEPSAPYAHTRKSFSISDKLDRQRNTASLRNPFQRSKSSKPEGRGDSLSMRKL
SRTSAFQSFESKHT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:





ACCN: NM_020952

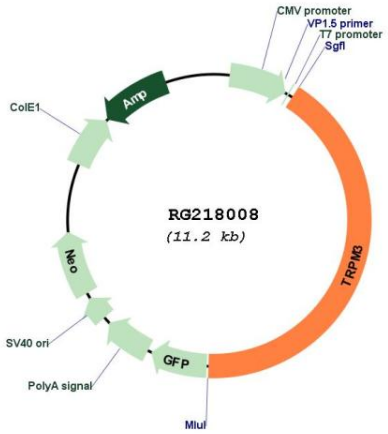
ORF Size: 5937 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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_020952.3, NP_066003.2
RefSeq Size:	5941 bp
RefSeq ORF:	4665 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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:



Circular map for RG218008

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US