

## Product datasheet for RC217550

### TRPM3 (NM\_206946) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRPM3 (NM_206946) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRPM3
Synonyms:	GON-2; LTRPC3; MLSN2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC217550 representing NM_206946 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTATGTGCGAGTATCTTTTGATACAAAACCTGATCTCCTCTTACACCTGATGACCAAGGAATGGCAGT  
TGGAGCTTCCCAAGCTTCTCATCTGTCCATGGGGCCTGCAGAACTTGAAGTCCAGCCAAAACCTCAA  
GCAAGTCTTTGGAAAGGGCTCATCAAAGCAGCAATGACAACCTGGAGCGTGGATATTCACCTGGAGGGTT  
AACACAGGTGTTATTCGTCATGTTGGCGATGCCTTGAAGGATCATGCCTCTAAGTCTCGAGGAAAGATAT  
GCACCATAGGTATTGCCCTGGGGAATTGGGAAAACAGGAGGACCTCATTGGAAGAGATGTTGTCCG  
GCCATACCAGACCATGTCCAATCCCATGAGCAAGCTCACTGTTCTCAACAGCATGCATTCCTCACTTCACT  
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GAAACTGCTGGGAATGGAGGATGATTTCCCTTGGGCGAGGAAGAAAGACAACCAAGAAACGTGAAGAA  
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GGGCTGTTCTCATGAAGCGGCAGAAAGATGGCCCTGTTCTTCTGGCAGCACGGTGAGGAGGCCATGGCCAA  
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >RC217550 representing NM\_206946  
 Red=Cloning site Green=Tags(s)

MYVRVSFDTKPDLHLMTKEWQLELPKLLISVHGGLQNFELQPKLKQVFGKGLIKAAMTTGAWIFTGGV  
 NTGVIRHVGDALDHDASKSRGKICTIGIAPWGIENQEDLIGRDVVRPYQTMSPMSKGLTVLNSMHSFI  
 LADNGTTGKYGAEVKLRRLQLEKHI SLQKINTRCLPFFSLDSRLFYSFWGSCQLDSVIGQGVPPVALIVE  
 GGPNVISIVLEYL RDTPPVPVVCDSGRASDILAFGHKYSEEGGLINESLRDQLLVITIQKFTTYTRTQA  
 QHLFIILMECMKKELITVFRMGSEGHQDIDLAILTALLKGANASAPDQLSLALAWNVRVDIARSQIFIYG  
 QQWPVGSLEQAMLDALVLD RVDVFKLLIENGVS MHRFLTISRLEELYNTRHGPSNTLYHLVRDVKKGNLP  
 PDYRISLIDIGLVIEYLMGGAYRCNYTRKFRFTLYHNLFGPKRPKALKLLGMEDDIPLRRGRKTTKKREE  
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 KLAKNIFYMPYMIYGEVFAQDIDPPCGQNETREDGKIIQLPPCKTGAWI VPAIMACYLLVANILLVNL  
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 GEETMSPTSPTLMPMRSHSFYSVNMKDKGGIEKLESIFKERSLSLHRATSSHVAKPKAPAAPANTLA  
 IVPDSRRPSSCIDIYVSAMDELHCDIDPLDNSVNILGLGEPSTFPVSTAPSSAYATLAPTRPPSRS  
 IDFEDITSMDFRSFSDYTHLPECQNPWDSEPPMYHTIERSKSSRYLATTPFLLEEAPIVKSHSFMFSPS  
 RSYIANFGVPVKTAEYTSITDCIDTRCVNAPQAIADRAAFPGGLGDKVEDLTCCHPEREAELSHPSDSE  
 ENEAKGRRATIAISSQEGDNSERTLSNNITVPKIERANSYSAEEPSAPYAHRKSFSSISDKLDRQNTAS  
 LRNPFQRSSKPEGRGDSL MRRLSRTSAFQSFESKHN

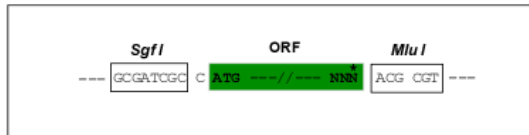
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

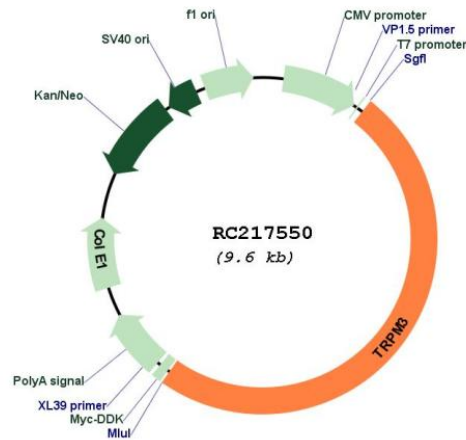
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_206946

**ORF Size:** 4737 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\\_206946.5](#)

<b>RefSeq Size:</b>	6015 bp
<b>RefSeq ORF:</b>	4740 bp
<b>Locus ID:</b>	80036
<b>Cytogenetics:</b>	9q21.12-q21.13
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
<b>MW:</b>	180.2 kDa
<b>Gene Summary:</b>	<p>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]</p>