

## Product datasheet for **RR200069**

### Trpm1 (NM\_001037734) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Trpm1 (NM\_001037734) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Trpm1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR200069 representing NM\_001037734  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGTCCATGAGGAAAATGAGCAGCTCCTTCAAGCGTGGTTCAATCAAGAGCTCCACATCAGGGTCCC  
AGAAGGGTCAGAAAAGCATGGATAGAGAAGACGTTTTTGCAAAAGGGAATGCATCTTCGTATTCTAGTAC  
AAAAGACCCGAACAGATGTTGCTGTGGTCAGCTCACTAACAGCAGATCCCCCGCTGCCGAGTGTGACT  
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CCCAGAGTACCCAACAGACTCCTATGGGATTCTTGAATTCCAGGGTGGGGGCTACTCCAATAAAGCCAT  
GTATATCCGAGTCTCCTACGACACCAAGCCAGATTCTCTGCTCCATCTCATGGTGAAGGACTGGCAGCTG  
GAGCTCCCAAGCTCTTGATATCTGTGCATGGAGGCTCCAGAGCTTTGAGATGCAGCCCAAGCTGAAGC  
AGGTCTTTGGAAAGGTCTGATCAAGGCTGCCATGACCACAGGGGCATGGATCTTACCAGGGGGAGTGAG  
CACTGGTGTGTCAGCCATGTGGGGATGCCTTGAAGGACCCTCCTCAAGTCCAGAGGCCGGCTCTGT  
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TCTACCAGACCATGTCCAACCTCTGAGCAAGCTCTCCGTGCTCAACAATTCTCACACTCACTTCATCTT  
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TATCCCGAGGCTGGAGGAGCTTTACAACACTAGACTGGGCCACCAACACCTTCTGCTGCTGGTGGC



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GATGTGAAGAAGAGCAACCTCCACCTGACTACCACATCAGCCTCATCGATATAGGACTGGTGTGGAGT  
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GCTCCAGAGGGACAAAACACCCAGCAGGAGAAAGGAAACCCGAAAACCTGAATGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >RR200069 representing NM\_001037734  
 Red=Cloning site Green=Tags(s)

MGSMRKMSSSFKRGSIKSSSTSGSQKGQKAWIEKTFCKRECIFVIPSTKDPNRCCCGQLTNQHIPPPLSVT  
 PSSTAEDTKQGDAAQSGKWSVSKHTQSYPTDSYGILEFQGGGYSNKAMYIRVSYDTKPDSSLHLMVKDWQL  
 ELPKLLISVHGGLQSFEMQPKLKQVFGKGLIKAAMTTGAWIFTGGVSTGVVSHVDALKDHSKSRGRLC  
 AIGIAPWGMVENKEDLVGKDVTRVYQTMNSPLSKLSVLNNSHTHFILADNGTLGKYGAEVKLRRLQLEKHI  
 SLQKINTRLGQGVVVLVVEGGPNVVSIVLEYLREDPPVPPVVCDGSGRASDILSFAHKYCEDEGGVINE  
 SLRDQLLVTIQKTFNYSKSQSHQLFAIIMECKKKELVTVFRMGSEGGQDVEMAILTALLKGTNVSAPDQ  
 LSLALAWNRVDIARSQIFVFGPHWPPLGSLAPPVDTKVAEKEKKPPTATTGGRGKGGKGGKVKVEEVEE  
 ETDPRKIELLNWVNAEQAMLDALVLDVDFVKLLIENGVNMQHFLTIPRLEELYNTRLGPPNTLHLLVR  
 DVKSNLPPDYHISLIDIGLVLEYLMGGAYRCNYTRKSFRTLNNLFGPKRPKALKLLGMEDEPPAKGK  
 KKKKKKKEEIDIDVDDPAVSRFQYPFHELMVWAVLMKRQKMAVFLWQRGEECAKALVACKLYKAMAHE  
 SSESELVDDISQDLDNNSKDFGQLAVELLDQSYKHDEQVAMKLLTYELKNWSNSTCLKLAVAAKHRDFIA  
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 DAGSRKGDENEHKKQRSIPIGTKICEFYNAPIVKFWFYTISYLYLLLFNYVILVRMDGWPSPQEWIVI  
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 PYWMIYGEVFADQIDRKTRIHAYEINPPCGENLYDEEGKRLPPCIPGAWLTPALMACYLLVANILLVN  
 LLIAVFNNTFFEVKISINQVWKFQRYQLIMTFHDRPVLPPMIILSHIYIIVMRLSGRCRKKREGDQEEER  
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 LQTVDLRLSQLEELSGRMVGALENLAGIDRSDLIQARSRASSECEATYLLRQSSINSADGYSMRYHFNG  
 EELLFEPPALSTSPGTVFRKKTCSFRVKEEDVKPHLDQPSLHHTPGSPPPATPGRSRLALDGPLSTELR  
 PGLDPGISAGELDPRADFKSAEVAPSLNTANVASTQLTVESTVSHPLRESKLARYYPGDLNTYKTMKSRS  
 FVYSEGRKLVRLSNWGAEYSSIMDQTNWNAEWRCQVQRITRSRSTDIPYIVSEAAEQDEFDEHRESLL  
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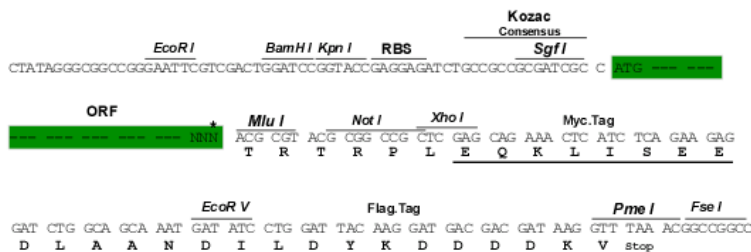
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

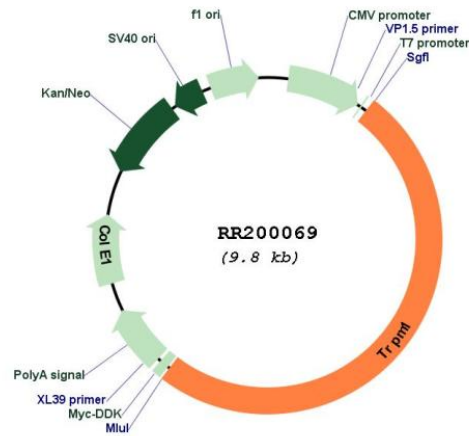
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

## Plasmid Map:



ACCN: NM\_001037734

ORF Size: 4884 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\\_001037734.1](#), [NP\\_001032823.1](#)

RefSeq Size: 5030 bp

RefSeq ORF:	4887 bp
Locus ID:	361586
UniProt ID:	<u>Q2WEA5</u>
Cytogenetics:	1q22
MW:	184.3 kDa
Gene Summary:	Calcium channel which may play a role in metastasis suppression. May act as a spontaneously active, calcium-permeable plasma membrane channel (By similarity).[UniProtKB/Swiss-Prot Function]