

## Product datasheet for RR211342

### Trpm8 (NM\_134371) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trpm8 (NM_134371) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpm8
Synonyms:	CMR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211342 representing NM_134371 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTCCTTCGAGGGAGCCAGGCTCAGCATGAGGAGCCGAGAAATGGAACCTCTGGCAGCACCCGGACCC  
TGTAATCCAGCGTGTCTCGGAGCACAGACGTGTCTACAGTGAAAGTGATTTGGTGAATTTTATTCAGCC  
AAATTTTAAAAACGAGAATGCGTCTTCTTTACCAGAGACTCCAAGGCCATGGAGAGCATATGCAAGTGT  
GGTTATGCCAGAGCCAGCATATCGAAGGCACCCAGATCAACCAAAATGAGAAAGTGAACACAAAAAC  
ACACCAAGGAGTTTCCAACAGACGCCTTTGGGGACATTAGTTTGGAGACTCTGGGGAAGAAGGCAAGTA  
CTTACGCTTATCCTGTGACACGGACTCTGAAACCTCTACGAACTGCTGACCCAGCACTGGCACCTCAAA  
ACACCAACCTGGTCATCTCAGTGACGGGTGGAGCCAAAACTTTGCTTTGAAGCCACGCATGCGCAAAA  
TCTTCAGTCGGCTGATCTACATCGCTCAGTCTAAAGGGGCATGGATTCTTACCGGAGGCACTCATTACGG  
TCTGATGAAGTACATAGGTGAAGTGGTGAGGGATAACACCATCAGCAGGAACTCGGAAGAGAACATCGTG  
GCCATTGGCATAGCGCCCTGGGGCATGGTCTCCAACAGGGACACCCTCATCAGGAATTGTGATGATGAGG  
GACATTTTTTCAGCTCAATATATCATGGATGACTTCATGAGAGATCCTCTACATCCTGGACAACAATCA  
TACCCACCTGCTGCTTGTGGACAACGGTTGTATGGACACCCACGGTGGAAAGCCAAACTTCGGAATCAG  
CTGGAGAAGTACATCTCTGAGCGCACCAAGTCAAGATTCCAATATGGTGGTAAGATCCCCATCGTGTGTT  
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GGTGGTGAAGGCTCGGGGCAGATTGCCGATGTGATTGCCAGCCTGGTGGAGGTAGAGGATGTTTTAACCC  
TCTTCCATGGTCAAAGAGAAGCTGGTACGGTTTTTACCCCGCACTGTGTCCCGGCTGCCTGAAGAGGAGA  
TTGAGAGCTGGATCAAAATGGCTCAAAGAAATCTTGAGAGCCCCACCTCCTCACGGTCATCAAGATGGA  
GGAGGCTGGAGACGAGGTCGTGAGCAGCGCCATTTCTACGCGCTGTACAAGCCCTCAGCACTAATGAA  
CAAGACAAGGACAACCTGGAACGGACAGCTGAAGCTTCTGCTGGAGTGGAAACCACTGGACCTTGCCAGTG  
ATGAGATCTTACCAATGACCGCGCTGGGAGTCTGCCGACCTCAGGAAGTCATGTTACCGGCCCTCAT  
AAAGGACAGGCCAAGTTTGTCCGCTTCTCTGGAGAATGGCCCAACCTGCAGAAAGTCTCACCACAT  
GAAGTCTCACGGAGCTTCTCCACCCACTTCAGCACCTAGTGTACCGGAACCTGCAGATCGCCAAGA



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ACTCCTACAACGATGCACTCCTTACCTTTGTCTGGAAGTTGGTGGCAAACCTCCGTAGAAGCTTCTGGAA  
 AGAGGACAGAAGCAGCAGGGAGGACTTGGATGTGGAACCCATGATGCATCTCTACCACCCGGCACCCC  
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 CCAAAGGCTGTACTCTGGCCGCTTGGGGGCCAGCAAACCTTGAAGACCTGGCCAAAGTTAAGAATGA  
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 GAGTGTACACGAGTGTGAGGACTTGGCAGAACAGCTACTGGTCTACTCTTGTGAAGCCCTGGGGTGGGA  
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 TTCTCCTGCTGTTTTCGTATGTGCTGCTCATGGACTCCACTCGGTGCCACACACCCCGAGCTGATC  
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 TCACTCTTCAAATAAAAGCTCTTTGTACTCCGGGCGAGTCATTTTCTGTCTGGATTACATTATATCACT  
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 TCATCGAGTTTTCTTCTTCTTGTCTTTGCTGTGTGGATGGTGGCCTTCGGCGTAGCCAGACAGGG  
 GATCCTTAGGCAAAATGAACAGCGCTGGAGGTGGATCTCCGCTCTGTACATCTATGAGCCCTACCTGGCC  
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 ATGAGTCCAAGCCACTGTGCGTGGAGCTAGATGAATAACAATCTGCCCCGTTCCCTGAGTGGATCACCAT  
 CCCACTAGTGTGCATCTACATGCTCTCCACCAACATCCTTCTGGTCAATCTCCTGGTCCCATGTTTGGC  
 TACACGGTGGGCATTGTGCAGGAGAACAACGATCAGGTCTGGAAGTTCAGCGGTAATCTCCTGGTGCAGG  
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 GTGTTTCAAATGCTGCTGTAAGAGAAGAACAACCGGAGTCTTCTGCCTGCTGTTTTCAGAAATGAGGCAAC  
 GAGACTTTGGCGTGGGAGGGCGTATGAAGGAGAATTACCTTGTCAAGATCAACACGGAAGGCCAACGACA  
 ACGCAGAGGAGATGAGGCATCGGTTAGACAACCTGGACACAAAGCTTAATGATCTCAAAGGTCTTCTGAA  
 AGAGATTGCTAATAAAATCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR211342 representing NM\_134371  
 Red=Cloning site Green=Tags(s)

MSFEGARLSMRSRRNGTLGSTRTLYSSVSRSTDVSYSESDLVNF IQANFKKRECVFFTRDSKAMESICKC  
 GYAQSQHIEGTQINQNEKWNKHTKEFPTDAFGDIQFETLGKKGKYLRLSCDTDSETLYELLTQHWHLK  
 TPNLVISVTGGAKNFALKPRMRKIFSRLLIYIAQSKGAWILTGTHYGLMKYIGEVVRDNTISRNSEENIV  
 AIGIAAWGMVSNRDLIRNCDDEGHFSAQYIMDDFMRDPLYILDNNHLLLLVDNGCHGHPTVEAKLRNQ  
 LEKYISERTSQDSNYGGKIPIVCF AQGGGRET LKAINTSVKSKIPCVVVEGSGQIADVIASLVEVEDVLT  
 SSMVKEKLVRFLLPRTVSRLEPEEEIESWIKWLKEILESPHLLTVIKMEEAGDEVVSSAISYALYKAFSTNE  
 QDKDNWNGQLKLLLEWNQLDLASDEIFTNDRRWEASDLQEVMTALIKDRPKFVRLFLENGLNQKFLTN  
 EVLTELSTHSTLVYRNLQIAKNSYNDALLTFVWKL VANFRRSFWKEDRSSREDLDVELHDAASLTTRHP  
 LQALFIWAILQNKELSKVIWEQTKGCTLAALGASKLLKTLAKVKNDINAAGESEELANEYETRAVELFT  
 ECYSSDEDLAEQLLVYSCEAWGGSNCLELAVEATDQHFIAQPGVQNF LSKQWYGEISRDTKNWKIILCLF  
 IIPLVGGLVSRKPKIDKHKLLWYVAFFTSPFVVFVSWNVVYIAFLLLFAYVLLMDFHVPHTPELI  
 LRLIHFIVSRNLGPKIIMLQRMLIDVFFFLFAVMMVAFGVARQGILRQNEQRWRWIFRSVIYEPYLA  
 MFGQVPSDVSTTYDFSHCTFSGNESKPLCVELDEYNLPRFPEWITIPLVCIYMLSTNILLVNLVAMFG  
 YTVGIVQENNDQVWKFQRYFLVQYCNRLNIPFPVVFAYFYMVVKKCFKCCCKEKNTESSACCFRNEDN  
 ETLAWEGVMKENYLKINTKANDNAEEMRHRFRQLDTKLNDLKGLLKEIANKIK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

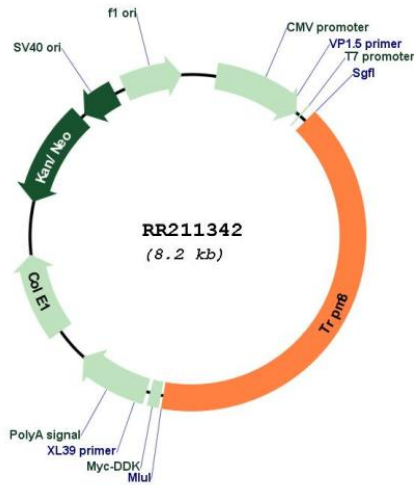
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

Plasmid Map:



ACCN: NM\_134371

ORF Size: 3312 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_134371.2](#), [NP\\_599198.2](#)

**RefSeq Size:** 4184 bp

**RefSeq ORF:** 3315 bp

**Locus ID:** 171384

**UniProt ID:** [Q8R455](#)

**Cytogenetics:** 9q35

**MW:** 127.6 kDa

**Gene Summary:** excitatory ion channel; may be involved in transducing cold stimuli [RGD, Feb 2006]