

## Product datasheet for **RR217179**

### Trpv2 (NM\_001270797) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trpv2 (NM_001270797) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpv2
Synonyms:	Vrl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RR217179 representing NM\_001270797  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTTCAGCCTCCAGCCCCAGCTTTCAGGCTGGAGACTCCGATGGAGATGAAGAGGGCAATGCTG  
 AGGTGAACAAGGGGAAGCAGGAACCGCCCCCATGGAGTCACCATTCCAGAGGGAGGACCGAATTCCTC  
 CCCTCAGATCAAAGTGAACCTCAACTTCATAAAGAGACCTCTAAAAACACTTCTGCTCCAGCCAGCAG  
 GAGCCAGATCGGTTTGACCGTGACCGACTTTCAGTGTGGTCTCCCGGGGTGTCCCGAGGAACTGACTG  
 GACTGCTAGAATACCTGCGCTGGAACAGCAAGTACCTCACTGACTCTGCATACACAGAAGGCTCCACTGG  
 AAAGACGTGCCTGATGAAGGCTGTGCTGAACCTTCAGGATGGGGTCAATGCCTGCATCATGCCGCTGCTG  
 CAGATTGACAAGGATCCGGCAATCCCAAGCCCCTCGTCAATGCCAGTGCATCGATGAGTTCTACCAAG  
 GCCACAGTGCCTGCACATCGCCATAGAGAAGAGGAGCCTGCAGTGCCTGAAGCTGCTGGTAGAGAAATGG  
 AGCGGATGTTACCTCCGAGCCTGTGGCGCTTCTTCCAAAAGCACCAAGGAACCTGTTTCTATTTTGG  
 GAGCTACCTCTTCTCTGCTGCGTGCACCAAGCAGTGGGATGTGGTGACCTACCTCCTGGAGAACCAC  
 ACCAGCCGGCCAGCCTGGAGGCCACCGACTCCCTGGGCAACACAGTCTGCATGCTCTGGTAATGATTGC  
 AGATAACTCGCCTGAGAACAGTGCCTGGTGATCCACATGTACGACGGGCTTCTACAAATGGGGGCGCGC  
 CTCTGCCCCACTGTGCAGCTTGAGGAAATCTCCAACCACCAAGGCCTCACACCCCTGAAACTAGCCGCCA  
 AGGAAGGCAAAATCGAGATTTTCAGGCACATTCGACGCGGAATTCAGGACCGTACCAGCCCCTTTC  
 CCGAAAGTTTACTGAGTGGTGTACGGTCTGTGCGGGTATCGCTGTACGACCTGCTCTGTGGACAGC  
 TGGGAAAAGAACTCGGTGCTGGAGATCATCGCTTTTCAATTGCAAGAGCCGAACCGGCACCGCATGGTGG  
 TTTTAGAACCACTGAACAAGCTTCTGCAGGAGAAATGGGATCGGCTCGTCTCAAGATTCTTCTCAACT  
 CGCCTGCTACTTGGTCTACATGTTTCATCTTACCGTCTGCTACCACAGCCTTCCCTGGATCAGCCA  
 GCCATCCCTCATCAAAGCGACTTTTGGGGAATCCATGCTGCTGCTGGGCCACATTCTGATCCTGCTTG  
 GGGGATTTACTCTTACTGGGCCAGTGTGGTACTTTTGGCGCGGCGCCTGTTTCATCTGGATCTCATT  
 CATGGACAGTACTTTGAAATCCTTTTCTCCTCAGGCTCTGCTCACAGTGTGTCCCAGGTGCTGCGC  
 TTCATGGAGACTGAATGGTACCTACCCCTGCTAGTGTATCCCTAGTGTGGGCTGGCTGAACCTGCTTT  
 ACTACACACGGGGCTTTCAGCACACAGGCATCTACAGTGTATGATCCAGAAGGTATCCTTCGAGACCT  
 GCTCCGTTTCTGCTGGTCTACCTGGTCTTCTTTTTCGGCTTTGCTGTAGCCCTAGTAAGCTTGAGCAGA  
 GAGGCCGAAGTCCCAAAGCCCCTGAAGATAACAACCTCCACAGTGACGGAACAGCCACGGTGGGCCAGG  
 AGGAGGAGCCAGCTCCATATCGGAGCATTCTGGATGCCTCCCTAGAGCTGTTCAAGTTACCATTTGGTAT  
 GGGGGAGCTGGCTTTCCAGGAACAGCTGCGTTTTCTGTTGGGGTGGTCTGCTGTTGCTGTTGGCCTACGTC  
 TTCTCACCTACGTCCTGCTGCTCAACATGCTCATTGCTCTCATGAGCGAAACTGTCAACCACGTTGCTG  
 ACAACAGCTGGAGCATCTGGAAGTTGCAGAAAGCCATCTCTGTCTTGAGATGGAGAAATGGTTACTGGTG  
 GTGCCGGAGGAAGAAACATCGTGAAGGGAGGCTGCTGAAAGTCCGACACAGGGGGGATGGTACCCCTGAT  
 GAGCGCTGGTGTTCAGGGTGGAGGAAGTAAATGGGTTGCTTGGGAGAAGACTTTCCACCTTATCTG  
 AGGATCCATCAGGGCCAGGCATCACTGGTAATAAAAAGAACCCCAACCTCTAAACCGGGGAAGAACAGTGC  
 CTCAGAGGAAGACCATCTGCCCTTCAGGTCCTCCAGTCCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217179 representing NM\_001270797

Red=Cloning site Green=Tags(s)

MTSASSPPAFRLETSDGDEEGNAEVNKGKQEPPEMESPFRQREDRNSSPQIKVNLNFIKRPKNTSAPSQQ  
 EPDRFDRDLF SVVSRGVPEEL TGLLEYLRWN SKYL TDSAYTEGSTGKTCLMKAVLNLDQGVNACIMPLL  
 QIDKDSGNPKPL VNAQC IDEFYQGH SALHIAIEKRSLQCVKLL VENGADVHLRACGRFFQKHQGTCTFYFG  
 ELPLSLAACTKQWDVVTYLLENPHQPASLEATDSL GNTVLHALVMIADNSPENSALVIHMYDGLLQMGAR  
 LCPTVQLEEISNHQGLTPLKLAKEGKIEIFRHILQREFSGPYQPLSRKFTWCYGPVRSVLYDLSSVDS  
 WEKNSVLEIIAFHCKSPNRHRMVVLEPLNKL LQEKWDRLVSRFFNFACYLVYMFIFTVVAYHQPSLDQP  
 AIPSSKATFGESMLLLGHILILLGGIYLLLGQLWYFWRRLFIWISFMDSYFEILFLLQALLTVLSQVLR  
 FMETEWYLLVLSVLGWLNL YYTRGFQHTGIYSVMIQVILRDLLRFLVYLVFLFGFAVALVLSR  
 EARSPKAPEDNNSVTEQPTVGQEEEPAPYRSILDASLELFKFTIGMGELAFQEQLRFRGVVLLLLLAYV  
 LLYVLLLLNMLIALMSETVNHVADNSWSIWKLQKATSVLEMENGYWCRKKHREGRLLVKVGTRGDGTPD  
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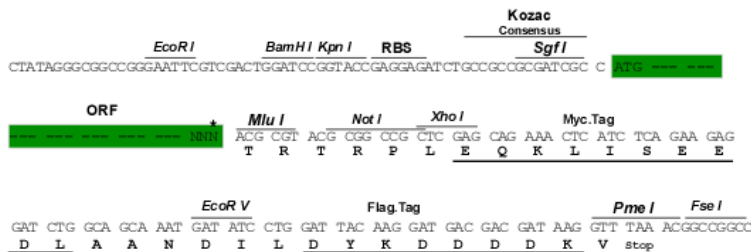
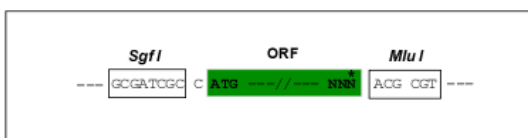
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001270797

**ORF Size:** 2283 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\\_001270797.1](#), [NP\\_001257726.1](#)

**RefSeq Size:** 2811 bp

**RefSeq ORF:** 2286 bp

**Locus ID:** 29465

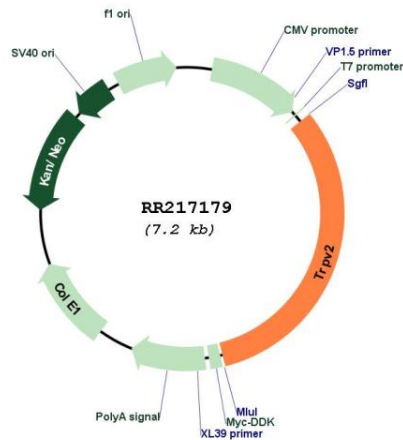
**UniProt ID:** [Q9WUD2](#)

**Cytogenetics:** 10q23

**MW:** 86.7 kDa

**Gene Summary:** ion channel that may be activated by high temperature; may transduce high threshold heat responses in sensory ganglia [RGD, Feb 2006]

**Product images:**



Circular map for RR217179