

## Product datasheet for **RG223028**

### VR1 (TRPV1) (NM\_018727) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VR1 (TRPV1) (NM_018727) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VR1
Synonyms:	VR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG223028 representing NM\_018727  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGAAATGGAGCAGCACAGACTTGGGGCAGCTGCGGACCCACTCCAAAAGGACACCTGCCAGACC  
CCCTGGATGGAGACCCTAACTCCAGGCCACCTCCAGCCAAGCCCAGCTCTCCACGGCCAAGAGCCGCAC  
CCGGCTCTTTGGGAAGGGTGACTCGGAGGAGGCTTCCAGTGGATTGCCCTCACGAGGAAGGTGAGCTG  
GACTCCTGCCGACCATCACAGTCAGCCCTGTTATCACCATCCAGAGGCCAGGAGACGGCCCCACCGGTG  
CCAGGCTGCTGTCCAGGACTCTGTGCCGCCAGCACCAGAGAAGACCCTCAGGCTCTATGATCGCAGGAG  
TATCTTTGAAGCCGTTGCTCAGAATAACTGCCAGGATCTGGAGAGCCTGCTGCTTCTGCAGAAGAGC  
AAGAAGCACCTCACAGACAACGAGTTCAAAGACCCTGAGACAGGGAAGACCTGTCTGCTGAAAGCCATGC  
TCAACCTGCACGACGGACAGAACACCACCATCCCCTGCTCCTGGAGATCGCGCGGCAAACGGACAGCCT  
GAAGGAGCTTGTCAACGCCAGCTACACGGACAGCTACTACAAGGGCCAGACAGCACTGCACATCGCCATC  
GAGAGACGCAACATGGCCCTGGTACCCTCCTGGTGGAGAACGGAGCAGACGTCCAGGCTGCGGCCCATG  
GGACTTCTTTAAGAAAACCAAAGGGCGCCCTGGATTCTACTTCGGTGAAGTCCCTGTCCCTGGCCGC  
GTGCCAACACAGCTGGGCATCGTGAAGTTCCTGCTGCAGAACTCCTGGCAGACGGCCGACATCAGCGCC  
AGGGACTCGGTGGGAACACGGTGTGCACGCCCTGGTGGAGGTGGCCGACAACACGGCCGACAACACGA  
AGTTTGTGACGAGCATGTACAATGAGATTCTGATGCTGGGGGCCAAACTGCACCCGACGCTGAAGCTGGA  
GGAGCTCACCAACAAGAAGGGAATGACGCCGCTGGCTCTGGCAGCTGGGACCGGGAAGATCGGGGTCTTG  
GCCTATATTCTCCAGCGGAGATCCAGGAGCCCGAGTGCAGGCACCTGTCCAGGAAGTTCACCGAGTGGG  
CCTACGGGCCCGTGCACTCCTCGCTGTACGACCTGTCTGCATCGACACCTGCGAGAAGAAGTTCGGTGTG  
GGAGGTGATCGCCTACAGCAGCAGCGAGACCCCTAATCGCCACGACATGCTCTTGGTGGAGCCGCTGAAC  
CGACTCCTGCAGGACAAGTGGGACAGATTCTGCAAGCGCATCTTCTACTTCAACTTCTGGTCTACTGCC  
TGTACATGATCATCTTACCATGGCTGCCTACTACAGGCCGTTGGATGGCTTGCCTCCCTTAAAGATGGA  
AAAAATTGGAGACTATTTCCGAGTTACTGGAGAGATCCTGTCTGTGTTAGGAGGAGTCTACTTCTTTTTTC  
CGAGGGATTCACTATTTCTGCAGAGGCCGCCGTCGATGAAGACCCTGTTTGTGGACAGCTACAGTGAGA  
TGCTTTTCTTTTGCAGTCACTGTTTCTGCTGGCCACCGTGGTGTGACTTACGCCACCTCAAGGAGTA  
TGTGGCTTCCATGGTATTCTCCCTGGCCTTGGGCTGGACCAACATGCTCTACTACACCCGCGGTTTCCAG  
CAGATGGGCATCTATGCCGTCATGATAGAGAAGATGATCCTGAGAGACCTGTGCCGTTTCTGTTTGTCT  
ACGTGCTTCTTGTTCGGGTTTTCCACAGCGGTGGTGCAGCTGATTGAAGACGGGAAGAATGACTCCCT  
GCCGCTGAGTCCACGTGCACAGGTGGCGGGGCCCTGCCTGCAGGCCCCCGATAGCTCCTACAACAGC  
CTGTACTCCACCTGCCTGGAGCTGTTCAAGTTCACCATCGGCATGGGCGACCTGGAGTTCCTGAGAACT  
ATGACTTCAAGGCTGTCTTATCATCTCTGCTGGCCTATGTAATTCTCACCTACATCCTCCTGCTCAA  
CATGCTCATCGCCCTCATGGGTGAGACTGTCAACAAGATCGCACAGGAGAGCAAGAACATCTGGAAGCTG  
CAGAGAGCCATCACCATCCTGGACACGGAGAAGAGCTTCTTAAAGTGCATGAGGAAGGCCTTCCGCTCAG  
GCAAGCTGCTGCAGGTGGGTACACACCTGATGGCAAGGACGACTACCGGTGGTGTCTCAGGTTGGACGA  
GGTGAAGTGGACACCTGGAACACCAACGTGGGCATCATCAACGAAGACCCGGGCAACTGTGAGGGCGTC  
AAGCGCACCTGAGCTTCTCCCTGCGGTCAAGCAGAGTTTCAGGCAGACACTGGAAGAAGTTCCTGCTGG  
TCCCCCTTTAAAGAGAGGCAAGTCTCGAGATAGGCACTGCTCAGCCCGAGGAAGTTTATCTGCGACA  
GTTTTAGGGTCTCTGAAGCCAGAGGACGCTGAGGTCTTCAAGAGTCTGCCGCTTCCGGGGAGAAG

**ACGGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG223028 representing NM\_018727  
Red=Cloning site Green=Tags(s)

```
MKKWSSTDLGAAADPLQKDTCPDPLDGDPNRPPPAKPQLSTAKSRTRLFGKGDSEEAFPVDCPHEEGEL
DSCPTITVSPVITIQRPDGP TGARLLSQDSVAASTEKTLRLYDRRSIFEAVAQNNCQDLESLLLFLQKS
KKHLTDNEFKDPETGKTCLLKAMLNLDHGQNTTIPLLLEIARQTDLSKELVNASYTDSYKGTALHIAI
ERRNMALVTLVENGADVQAAAHGDFFKKTKGRPGFYFGELPLSLAACTNQLGIVKFLQNSWQTADISA
RDSVGNVTLHALVEVADNTADNTK FVTSMYNEILMLGAKLHPTLKLEELTNKKGMTPLALAAGTGKIGVL
AYILQREIQEPECRHLSRKFTWAYGPHSSLYDLSCIDTCEKNSVLEVIAYSSSETPNRHMLLVEPLN
RLLQDKWDRFVKRIFYFNFLVYCLYMIIFTMAAYRVPDGLPPFKMEKIGDYFRVTGEILSVLGGVYFFF
RGIQYFLQRRPSMKTLFVDSYSEMLFFLQSLFMLATVVLYFSLKEYVASMVFLALGWTNMLYYTRGFQ
QMGYIYAVMIEKMILRDLCRFMFVYVFLFGFSTAVVTLIEDGKNDSLPESTSHRWRGPACRPPDSSYNS
LYSTCLELKFFTIGMGDLEFTENYDFKAVFIILLLAYVILTYILLNMLIALMGETVNKIAQESKNIWKL
QRAITILDTEKSF LKCMRKAFRSGKLLQVGYTPDGKDDYRWCFRVDEVNWTWNTNVIINEDPGNCEGV
KRTLSFSLRSSRVSGRHWNFALVPLLREASARDRQSAQPPEEVYLRQFSGSLKPEDA EVFKSPAASGEK
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



**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\\_018727.4](#), [NP\\_061197.4](#)

**RefSeq Size:** 4046 bp

**RefSeq ORF:** 2520 bp

**Locus ID:** 7442

**UniProt ID:** [Q8NER1](#)

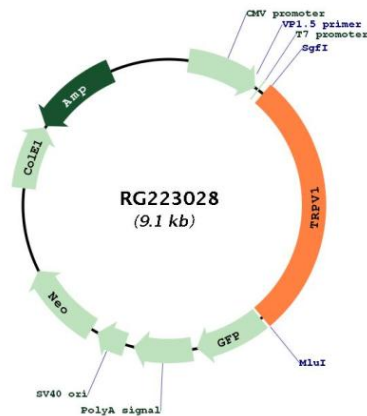
**Cytogenetics:** 17p13.2

**Protein Families:** Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**Gene Summary:** Capsaicin, the main pungent ingredient in hot chili peppers, elicits a sensation of burning pain by selectively activating sensory neurons that convey information about noxious stimuli to the central nervous system. The protein encoded by this gene is a receptor for capsaicin and is a non-selective cation channel that is structurally related to members of the TRP family of ion channels. This receptor is also activated by increases in temperature in the noxious range, suggesting that it functions as a transducer of painful thermal stimuli in vivo. Four transcript variants encoding the same protein, but with different 5' UTR sequence, have been described for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG223028