

Product datasheet for **SC309081**

VR1 (TRPV1) (NM_080706) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VR1 (TRPV1) (NM_080706) Human Untagged Clone
Tag:	Tag Free
Symbol:	VR1
Synonyms:	VR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_080706, the custom clone sequence may differ by one or more nucleotides

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ATGAAGAAATGGAGCAGCACAGACTTGGGGCAGCTGCGGACCCACTCCAAAAGGACACCTGCCAGACC
CCCTGGATGGAGACCCTAACTCCAGGCCACCTCCAGCCAAGCCCAGCTCTCCACGGCCAAGAGCCGCAC
CCGGCTCTTTGGGAAGGGTGACTCGGAGGAGGCTTCCCGTGGATTGCCCTCACGAGGAAGGTGAGCTG
GACTCCTGCCCGACCATCACAGTCAGCCCTGTTATCACCATCCAGAGGCCAGGAGACGGCCCCACCGGTG
CCAGGCTGCTGTCCAGGACTCTGTGCGCGCCAGCACCGAGAAGACCCTCAGGCTCTATGATCGCAGGAG
TATCTTTGAAGCCGTTGCTCAGAATAACTGCCAGGATCTGGAGAGCCTGCTGCTCTTCTGCAGAAGAGC
AAGAAGCACCTCACAGACAACGAGTTCAAAGACCCTGAGACAGGGAAGACCTGTCTGCTGAAAGCCATGC
TCAACCTGCACGACGGACAGAACACCACCATCCCCCTGCTCCTGGAGATCGCGCGCAAACGGACAGCCT
GAAGGAGCTTGTCAACGCCAGCTACACGGACAGCTACTACAAGGGCCAGACAGCACTGCACATCGCCATC
GAGAGACGCAACATGGCCCTGGTACCCTCCTGGTGGAGAACGGAGCAGACGTCCAGGCTCGGGCCATG
GGGACTTCTTTAAGAAAACCAAAGGGCGGCTGGATTCTACTTCGGTGAAGTCCCTGTCCCTGGCCGC
GTGCACCAACCAGCTGGGCATCGTGAAGTTCCTGCTGCAGAACTCCTGGCAGACGCCGACATCAGCGCC
AGGGACTCGTGGGCAACACGGTGTGCACGCCCTGGTGGAGGTGGCCGACAACCGGCCACAACACGA
AGTTTGTGACGAGCATGTACAATGAGATTCTGATGCTGGGGGCCAAACTGCACCCGACGCTGAAGCTGGA
GGAGCTCACCAACAAGAAGGGAATGACGCCGCTGGCTCTGGCAGCTGGGACCGGGAAGATCGGGGTCTTG
GCCTATATTCTCCAGCGGGAGATCCAGGAGCCCGAGTGCAGGCACCTGTCCAGGAAGTTCACCGAGTGGG
CCTACGGGCCCGTGCACCTCCTCGCTGTACGACCTGTCTGCATCGACACCTGCGAGAAGAACTCGGTGCT
GGAGGTGATCGCTACAGCAGCAGCGAGACCCCTAATCGCCACGACATGCTCTTGGTGGAGCCGCTGAAC
CGACTCCTGCAGGACAAGTGGACAGATTCGTCAAGCGCATCTTCACTTCAACTTCTGGTCTACTGCC
TGTACATGATCATCTTACCATGGCTGCCTACTACAGGCCCGTGGATGGCTTGCCTCCCTTAAAGATGGA
AAAAACTGGAGACTATTTCCGAGTTACTGGAGAGATCCTGCTGTGTTAGGAGGAGTCTACTTCTTTTTTC
CGAGGGATTAGTATTTCTGCAGAGCGGCCGCTCGATGAAGACCCTGTTTGTGGACAGTACAGTGAGA
TGCTTTTCTTTCTGCAGTCACTGTTTCACTGCTGGCCACCCTGGTGTGACTTTCAGCCACCTCAAGGAGTA
TGTGGCTTCCATGGTATTCTCCCTGGCCTTGGGCTGGACCAACATGCTCTACTACACCCGCGTTTCCAG
CAGATGGGCATCTATGCCGTGATGATAGAGAAGATGATCCTGAGAGACCTGTGCCGTTTTCATGTTTGTCT
ACATCGTCTTCTGTTCCGGTTTTCCACAGCGGTGGTACGCTGATTGAAGACGGGAAGAATGACTCCCT
GCCGTCTGAGTCCACGTGCACAGGTGGCGGGGGCCTGCCTGCAGGCCCCCGATAGCTCCTACAACAGC
CTGACTCCACCTGCCTGGAGCTGTTCAAGTTCACCATCGGCATGGGCGACCTGGAGTTCAGTGAAGT
ATGACTTCAAGGCTGTCTTCATCATCTGCTGCTGGCCTATGTAATTCTCACCTACATCCTCCTGCTCAA
CATGCTCATCGCCCTCATGGGTGAGACTGTCAACAAGATCGCACAGGAGAGCAAGAACATCTGGAAGCTG
CAGAGAGCCATCACCATCCTGGACACGGAGAAGAGCTTCCCTAAGTGCATGAGGAAGGCCTTCCGCTCAG
GCAAGTGTCTGCAGGTGGGTACACACCTGATGGCAAGGACGACTACCGGTGGTGTCTTACGGGTGGACGA
GGTGAAGTGGACACCTGGAACACCAACGTGGGCATCATCAACGAAGACCCGGGCAACTGTGAGGGCGTC
AAGCGCACCTGAGCTTCTCCCTGCGGTCAAGCAGAGTTTCAGGCAGACACTGGAAGAAGTTTGCCTGG
TCCCTTTTAAAGAGAGGCAAGTGTCTGAGATAGGCAGTCTGCTCAGCCCGAGGAAGTTTATCTGCGACA
GTTTTAGGGTCTCTGAAGCCAGAGGACGCTGAGGCTTCAAGAGTCTGCCGCTTCCGGGAGAAGTGA
    
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Restriction Sites: Please inquire
ACCN: NM_080706
Insert Size: 5000 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 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: The full-length cDNA was sequenced, and the ORF matches with that of NM_080706. There are 3 SNPs were detected in ORF, and two of these encode different amino acids compared to reference.

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_080706.2](#), [NP_542437.2](#)

RefSeq Size: 4415 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]

Transcript Variant: This variant (3) represents the longest transcript. Variants 1-4 all encode the same protein.