

Product datasheet for **SC305819**

VR1 (TRPV1) (NM_080705) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VR1 (TRPV1) (NM_080705) Human Untagged Clone
Tag:	Tag Free
Symbol:	VR1
Synonyms:	VR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_080705 edited
 ATGAAGAAATGGAGCAGCACAGACTTGGGGCAGCTGCGGACCCACTCCAAAAGGACACC
 TGCCCAGACCCCTGGATGGAGACCCTAACTCCAGGCCACCTCCAGCCAAGCCCCAGCTC
 TCCACGGCCAAGAGCCGACCCGGCTCTTTGGGAAGGGTGACTCGGAGGAGGCTTTCCCG
 GTGGATTGCCCTCACGAGGAAGTGAGCTGGACTCCTGCCGACCATCACAGTCAGCCCT
 GTTATCACCATCCAGAGGCCAGGAGACGGCCCCACCGTGCCAGGCTGCTGTCCCAGGAC
 TCTGTCCGCCAGCAGCAGAGAAGACCCCTCAGGCTCTATGATCGCAGGAGTATCTTTGAA
 GCCGTTGCTCAGAATAACTGCCAGGATCTGGAGAGCCTGCTGCTTCTCAGCAAGAGC
 AAGAAGCACCTCACAGACAACGAGTTCAAAGACCCTGAGACAGGGAAGACCTGTCTGCTG
 AAAGCCATGCTCAACCTGCACGACGGACAGAACCACCATCCCCCTGCTCCTGGAGATC
 GCGCGGCAAAACGGACAGCCTGAAGGAGCTTGCAACGCCAGCTACACGGACAGCTACTAC
 AAGGGCCAGACAGCACTGCACATCGCCATCGAGAGACGCAACATGGCCCTGGTGACCCTC
 CTGGTGGAGAACGGAGCAGACGTCCAGGCTGCGGCCATGGGGACTTCTTTAAGAAAACC
 AAAGGGCGGCTGGATTCTACTCGGTGAAGTCCCTGTCCCTGGCCGCTGCACCAAC
 CAGCTGGGCATCGTGAAGTTCTGCTGCAGAACTCCTGGCAGACGGCCGACATCAGCGCC
 AGGGACTCGGTGGCAACACGGTCTGCACGCCCTGGTGGAGGTGGCCGACAACACGGCC
 GACAACACGAAGTTTGTGACGAGCATGTACAATGAGATTCTGATGCTGGGGGCCAAACTG
 CACCCGACGCTGAAGCTGGAGGAGCTCACCAACAAGAAGGGAATGACGCCGCTGGCTCTG
 GCAGCTGGGACCGGAAGATCGGGTCTTGGCCTATATTCTCCAGCGGGAGATCCAGGAG
 CCCGAGTGCAGGCACCTGTCCAGGAAGTTCACCGAGTGGGCTACGGGCCCGTGCCTCC
 TCGCTGTACGACCTGTCTGCATCGACACCTGCGAGAAGAAGTCCGGTCTGGAGGTGATC
 GCCTACAGCAGCAGCAGACCCCTAATCGCCACGACATGCTCTTGGTGGAGCCGCTGAAC
 CGCTCCTGCAGGACAAGTGGGACAGATTCGTCAAGCGCATCTTCTACTTCAACTTCTCTG
 GTCTACTGCCTGTACATGATCATCTTACCATTGGCTGCCTACTACAGGCCCGTGGATGGC
 TTGCCTCCCTTTAAGATGGAATAATTGGAGACTATTTCCGAGTTACTGGAGAGATCCTG
 TCTGTGTAGGAGGAGTCTACTTCTTTTTCCGAGGGATTCAAGTATTTCTGCAGAGGCGG
 CCGTCGATGAAGACCCTGTTGTGGACAGCTACAGTGAGATGCTTTTCTTCTGCAGTCA
 CTGTTTCTGCTGGCCACCGTGGTGTACTTACGCCACCTCAAGGAGTATGTGGCTTCC
 ATGGTATTCTCCCTGGCCTTGGGCTGGACCAACATGCTCTACTACACCCGCGTTTCCAG
 CAGATGGGCATCTATGCCGTCATGATAGAGAAGATGATCCTGAGAGACCTGTGCCGTTTC
 ATGTTTGTCTACGTCGTCTTCTTGTTCGGGTTTTCCACAGCGGTGGTACGCTGATTGAA
 GACGGGAAGAATGACTCCCTGCCGCTGAGTCCACGTCGCACAGGTGGCGGGGCTGCC
 TGCAGGCCCCCGATAGCTCCTACAACAGCCTGTACTCCACCTGCCTGGAGCTGTTCAGG
 TTCACCATCGGCATGGGCGACCTGGAGTTCAGTGAAGTATGACTTCAAGGCTGTCTTC
 ATCATCTGCTGCTGGCCTATGTAATTCTCACCTACATCTCCTGCTCAACATGCTCATC
 GCCCTCATGGGTGAGACTGTCAACAAGATCGCACAGGAGCAAGAACATCTGGAAGCTG
 CAGAGAGCCATCACCATCCTGGACACGGAGAAGAGCTTCTTAAGTGCATGAGGAAGGCC
 TTCCGCTCAGGCAAGCTGCTGCAGGTGGGTACACACCTGATGGCAAGGACGACTACCGG
 TGGTCTTCAGGGTGGACGAGGTGAAGTGGACCCTGGAACACCAACGTGGGCATCATC
 AACGAAGACCCGGCAACTGTGAGGGCGTCAAGCGCACCCCTGAGCTTCTCCCTGCCGTC
 AGCAGAGTTTTCAGGCAGACACTGGAAGAAGTTTGCCTGGTCCCCCTTTAAGAGAGGCA
 AGTGCTCGAGATAGGCAGTCTGCTCAGCCCGAGGAAGTTTATCTGCGACAGTTTTCAGGG
 TCTCTGAAGCCAGAGGACGCTGAGGTCTTCAAGAGTCTGCCGCTTCCGGGGAGAAGTGA

Restriction Sites: Please inquire
ACCN: NM_080705
Insert Size: 2500 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none"> 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_080705.2 , NP_542436.2
RefSeq Size:	4089 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 (4) contains a different segment in the 5' UTR, compared to variant 3. Variants 1-4 all encode the same protein.