

Product datasheet for **SC123895**

VR1 (TRPV1) (NM_018727) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VR1 (TRPV1) (NM_018727) 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)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_018727 edited
ATGAAGAAATGGAGCAGCACAGACTTGGGGCAGCTGCGGACCCACTCCAAAAGGACACC
TGCCAGACCCCTGGATGGAGACCCTAACTCCAGGCCACCTCCAGCCAAGCCCCAGCTC
TCCACGGCCAAGAGCCGACCCGGCTCTTTGGGAAGGGTGACTCGGAGGAGGCTTTCCCA
GTGGATTGCCCTCACGAGGAAGTGAGCTGGACTCCTGCCGACCATCACAGTCAGCCCT
GTTATCACCATCCAGAGGCCAGGAGACGGCCCCACCGTGCCAGGCTGCTGTCCCAGGAC
TCTGTCGCCGCCAGCACCAGAGAAGACCCCTCAGGCTCTATGATCGCAGGAGTATCTTTGAA
GCCGTTGCTCAGAATAACTGCCAGGATCTGGAGAGCCTGCTGCTTTCCTGCAGAAGAGC
AAGAAGCACCTCACAGACAACGAGTTCAAAGACCCTGAGACAGGGAAGACCTGTCTGCTG
AAAGCCATGCTCAACCTGCACGACGGACAGAACCACCATCCCCCTGCTCCTGGAGATC
GCGCGGCAAACGGACAGCCTGAAGGAGCTTGCAACGCCAGCTACACGGACAGCTACTAC
AAGGGCCAGACAGCACTGCACATCGCCATCGAGAGACGCAACATGGCCCTGGTGACCCTC
CTGGTGGAGAACGGAGCAGACGTCCAGGCTGCGGCCATGGGGACTTCTTTAAGAAAACC
AAAGGGCGGCTGGATTCTACTTCGGTGAAGTCCCTGTCCTGGCCGCTGCACCAAC
CAGCTGGGCATCGTGAAGTTCTGCTGCAGAACTCCTGGCAGACGGCCGACATCAGCGCC
AGGGACTCGGTGGCAACACGGTCTGCACGCCCTGGTGGAGGTGGCCGACAACACGGCC
GACAACACGAAGTTTGTGACGAGCATGTACAATGAGATTCTGATGCTGGGGGCCAAACTG
CACCCGACGCTGAAGCTGGAGGAGCTCACCAACAAGAAGGGAATGACGCCGCTGGCTCTG
GCAGCTGGGACCGGAAGATCGGGTCTTGGCCTATATTCTCCAGCGGGAGATCCAGGAG
CCCAGTGCAGGCACCTGTCCAGGAAGTTCACCGAGTGGGCTACGGGCCCGTGCCTCC
TCGCTGTACGACCTGTCTGCATCGACACCTGCGAGAAGAAGTCCGGTCTGGAGGTGATC
GCCTACAGCAGCAGCGAGACCCCTAATCGCCACGACATGCTCTTGGTGGAGCCGCTGAAC
CGCTCCTGCAGGACAAGTGGGACAGATTCGTCAAGCGCATCTTCTACTTCAACTCTCTG
GTCTACTGCCTGTACATGATCATCTTACCATGGCTGCCTACTACAGGCCCGTGGATGGC
TTGCCTCCCTTTAAGATGGAATAATTGGAGACTATTTCCGAGTTACTGGAGAGATCCTG
TCTGTGTAGGAGGAGTCTACTTCTTTTTCCGAGGGATTCAAGTATTTCTGCAGAGGCGG
CCGTCGATGAAGACCCTGTTTGTGGACAGCTACAGTGAGATGCTTTTCTTCTGCAGTCA
CTGTTTCTGCTGGCCACCGTGGTGTACTTACGCCACCTCAAGGAGTATGTGGCTTCC
ATGGTATTCTCCCTGGCCTTGGGCTGGACCAACATGCTCTACTACACCCGCGTTTCCAG
CAGATGGGCATCTATGCCGTCATGATAGAGAAGATGATCCTGAGAGACCTGTGCCGTTTC
ATGTTTGTCTACGTCGTCTTCTTGTTCGGTTTTCCACAGCGGTGGTACGCTGATTGAA
GACGGGAAGAATGACTCCCTGCCGCTGAGTCCACGTCGCACAGGTGGCGGGGCTGCC
TGACGGCCCCCGATAGCTCCTACAACAGCCTGTACTCCACCTGCCTGGAGCTGTTCAGG
TTCACCATCGGCATGGGCGACCTGGAGTTCAGTGAAGTATGACTTCAAGGCTGTCTTC
ATCATCTGCTGCTGGCCTATGTAATTCTCACCTACATCTCCTGCTCAACATGCTCATC
GCCCTCATGGGTGAGACTGTCAACAAGATCGCACAGGAGAGCAAGAACATCTGGAAGCTG
CAGAGAGCCATCACCATCCTGGACACGGAGAAGAGCTTCTTAAGTGCATGAGGAAGGCC
TTCCGCTCAGGCAAGCTGCTGCAGGTGGGTACACACCTGATGGCAAGGACGACTACCGG
TGGTCTTCAGGGTGGACGAGGTGAAGTGGACCCTGGAACACCAACGTGGGCATCATC
AACGAAGACCCGGCAACTGTGAGGGCGTCAAGCGCACCCCTGAGCTTCTCCCTGCCGTC
AGCAGAGTTTTCAGGCAGACACTGGAAGAAGTTCGCCCTGGTCCCCCTTTAAGAGAGGCA
AGTGCTCGAGATAGGCAGTCTGCTCAGCCCCAGGAAGTTTATCTGCGACAGTTTTAGGG
TCTCTGAAGCCAGAGGACGCTGAGGTCTTCAAGAGTCTGCCGCTTCCGGGGAGAAGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018727 unedited AGGGGNNATGGGNNTNNTTGTAGTCAGATTTTGTAAATACGACTACTATAGGGCGGCCG CGAATTCGGCAGGAGAGACACCAGAAAGTCTGGTGGCTTTGGTCCCAAGTGGGAAAAGAG AACTGCCCCATGCCAGCTTGTGATTATCGTTTTTGGAGACCTGAAGCCACACTCGGGT CGTATGGACTTCTGAAAAAGTTCTGTCTCCTGGACTGAACCATGTGACCCGAGGCCCT TTCCTAGTCTCATCCTCCCCTGGCTGCAGATGCTTAGCTGGCCAGGGATTGACCCAAGC GCGATGCAGCAGGCAGGCTCAGAAGACGATGCGGGGCTGTGTGCCGGCCTTCTTGCTGCA TGTAAGTACAGCCTCAGGAGAGCTTGTGACCCAGGCCGCCAGGTCTTACAGCACAAC GCCTGGAAGGCAGGTTGCGAGAAGGAGAGGCGGATGGCATGAGCAGCAAGGGGGACCGAT GCTGTGCAGCTCACACCACTCCAGAACCTGACAAGGCACCAAGCAGGACCCCTTGCCAGGA GCATGTCTGTGCAGCAGTGTGTTTTGCCCTGCACATTCCAGAAGCCCTCATGGGAAGGGA TGCAGCCAGGCAGACTCTGCCAGATGGGGCAGGTTGCACACTGNGCCACAGAGGATCCA GCAAGGATGAAGAAATGGAGCAGCAGACTTGGGGCAGCTGCGGACCCACTCCAAAAG GACACCTGCCAGACCCCTGGATGGAGACCCTAACTTCAGGCCACTTCCAGCCAGCCCC AGCTCTCCACGCCAA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018727 unedited AGGGGTGGNNTNNTTGCCTGGATGGCACTTCCAGGCCAGGAGGCACTGGGGAGGGGT CACAGGGATGCCACCCGGGATCTGTTCCAGGAAACAGCTATGACCCGCGCCGAATCTAGA GTCGAGTTTTTTTTTTTTTTTTTATGTATACATATCTGTTTATTTGAGGATGCCAGTAT GGATGGAGTGAAGCATGTGCCATTGCGGAGAAACAGGACTGGGGTTCTAGAAATGGAA GATCTTTCAAACATTCTTACCAGGTACCTTTGGGATGTGGTTCTGTAGTTTTAACCTGCA CAGCAATTGAGCTGATCTTCTGGAGACTGTGATTGATCGTAAGGAAGGATGAAGAAAGCA CTGCTGCAACAGCTTGATTCTGCCAGAGCTGGGAGTGGGACAGCCTCCCCATCTTCTCC AGGGAGGAAAACCAACACCCCAAAACCACCCGGGAGGTAAGAGGAGCAAGCACGGCAC AGAGAGGAAGGGCCTCTGCATTTCCATCAAAGGAAGAGTTTGTCCCAAAGGTGTTTTTC CTGGGCTTCAATTTACTTTTGTCTTAATAATAATAAAATCAAAGAAGGCCGAGCGCAGCGG CTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGCCGGCAGATCACCTGAGGTCAAG AGTTCGAGACCAGCCTGGCCAACATGGTGAACCCCGTCTCTATTAATAATAATAAAATTA AGCCGGGCGTGGTAGTGCTCACCTGTAATCCAAGCTACTTGGGAGACTGAAGCAGAAGAA TCGCTTG
Restriction Sites:	Please inquire
ACCN:	NM_018727
Insert Size:	5000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<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_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:	<p>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]</p> <p>Transcript Variant: This variant (2) contains a different segment in the 5' UTR, compared to variant 3. Variants 1-4 all encode the same protein.</p>