

Product datasheet for **SC309684**

TRPV4 (NM_021625) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPV4 (NM_021625) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRPV4
Synonyms:	BCYM3; CMT2C; HMSN2C; OTRPC4; SMAL; SPSMA; SSQTL1; TRP12; VRL2; VROAC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_021625 edited
 CGGATCTCCCGGCCCGCCGCGCCAGCCGTCGCCGAGGCTGAGCAGTGCAGACGGGCCTG
 GGGCAGGCATGGCGGATTCCAGCGAAGGCCCCCGCGGGGGAGGTGGCTGAGC
 TCCCGGGGATGAGAGTGGCACCCAGGTGGGGAGGCTTTTCTCTCTCCCTGGCCA
 ATCTGTTTGAGGGGAGGATGGCTCCCTTCGCCCTCACCGGCTGATGCCAGTCGCCCTG
 CTGGCCAGGCGATGGGCGACCAAATCTGCGCATGAAGTTCAGGGCGCCTTCGCAAGG
 GGGTGCCCAACCCATCGATCTGCTGGAGTCCACCCTATATGAGTCTCGGTGGTGCCTG
 GGCCCAAGAAAGCACCCATGGACTACTGTTTGACTACGGCACCTATCGTCACTCACTCCA
 GTGACAACAAGAGGTGGAGGAAGAAGATCATAGAGAAGCAGCCGAGAGCCCAAGGCC
 CTGCCCCCTCAGCCGCCCCATCCTCAAAGTCTTCAACCGGCCTATCCTCTTTGACATCG
 TGTCCCGGGCTCCTACTGCTGACCTGGACGGGCTGCTCCATTCTTGCTGACCCACAAGA
 AACGCCTAACTGATGAGGAGTTTCGAGAGCCATCTACGGGAAGACCTGCCTGCCAAGG
 CCTTGCTGAACCTGAGCAATGGCCGCAACGACACCATCCCTGTGCTGCTGGACATCGCGG
 AGCGCACCCGCAACATGCGGGAGTTCACTAACTCGCCCTTCGTCGATCTACTATCGAG
 GTCAGACAGCCCTGCACATCGCCATTGAGCGTCGCTGCAAACTACGTGGAACCTTCTCG
 TGGCCAGGGAGCTGATGTCCACGCCAGGCCGTTGGGCGCTTCTCCAGCCCAAGGATG
 AGGGGGCTACTTCTACTTTGGGAGCTGCCCTGTGCTGGCTGCCTGCACCAACCAGC
 CCCACATTGTCACTACCTGACGGAGAACCCCAAGAAGGCGGACATGCGGCGCCAGG
 ACTCGGAGGCAACACAGTGTGATGCGCTGGTGGCCATTGCTGACAACACCCGTGAGA
 ACACCAAGTTTGTACCAAGATGTACGACCTGCTGCTGCTCAAGTGTGCCGCTCTTCC
 CCGACAGCAACCTGGAGGCCGTGCTCAACAACGACGGCCTCTCGCCCTCATGATGGCTG
 CCAAGACGGGCAAGATTGGGATCTTTCAGCACATCATCCGGCGGGAGGTGACGGATGAGG
 ACACACGGCACCTGTCCCGCAAGTTCAAGGACTGGCCTATGGCCAGTGTATTCTCTCG
 TTTATGACCTCTCTCCCTGGACACGTGTGGGAAGAGGCCTCCGTGCTGGAGATCTCGG
 TGTACAACAGCAAGATTGAGAACCACGACGAGATGCTGGTGTGGAGCCCATCAATGAAC
 TGCTGCGGGACAAGTGGCGCAAGTTCGGGGCCGCTCCTTCTACATCAACGTGGTCTCCT
 ACCTGTGTCCATGGTCATTTACTCTACCCGCTACTACCAGCCGCTGGAGGGCACAC



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CGCCGTACCCCTTACCGCACCACGGTGGACTACCTGCGGCTGGCTGGCGAGGTCATTACGC
TCTTACTGGGGTCTGTCTTCTTCCACCAACATCAAAGACTTGTTCATGAAGAAATGCC
CTGGAGTGAATTCCTCTTCACTTATGATGGCTCCTTCCAGCTGCTCTACTTCATCTACTCTG
TCCTGGTGATCGTCTCAGCAGCCCTCTACTGGCAGGGATCGAGGCTACCTGGCCGTGA
TGGTCTTTGCCCTGGTCTGGCTGGATGAATGCCCTTACTTCAACCGTGGGCTGAAGC
TGACGGGGACCTATAGCATCATGATCCAGAAGATTCTCTCAAGGACCTTTCCGATTCC
TGCTCGTCTACTTGCTCTTCAATGATCGGCTACGCTTACGCCCTTCCCTCTGAACC
CGTGTGCCAACATGAAGGTGTGCAATGAGGACCAGACCAACTGCACAGTGCCCACTTACC
CCTCGTGCCGTGACAGCGAGACCTTACGACCTTCTCTGACCTGTTTAAAGCTGACCA
TCGGCATGGGCGACCTGGAGATGCTGAGCAGCACCAAGTACCCCGTGGTCTTTCATCATCC
TGCTGGTGACCTACATCATCCTCACCTTGTGCTGCTCTCAACATGCTCATTGCCCTCA
TGGGCGAGACAGTGGCCAGGTCTCCAAGGAGAGCAAGCACATCTGGAAGCTGCAGTGG
CCACCACCATCTGGACATTGAGCGCTCCTTCCCGTATTCTGAGGAAGGCCTCCGCT
CTGGGGAGATGGTACCCTGGGCAAGAGCTCGGACGGCACTCCTGACCGAGGTGGTGTCT
TCAGGGTGGATGAGGTGAACTGGTCTCACTGGAACCAGAATTGGGCATCATCAACGAGG
ACCCGGGCAAGAATGAGACCTACAGTATTATGGCTTCTCGCATACCGTGGGCCGCTCC
GCAGGGATCGCTGGTCTCGGTGGTACCCCGCTGGTGGAACTGAACAAGAACTCGAACC
CGGACGAGGTGGTGGTGCCTCTGGACAGCATGGGGAACCCCGCTGCGATGGCCACCAGC
AGGGTTACCCCGCAAGTGGAGGACTGATGACGCCCGCTCTAGGGACTGCAGCCAGCC
CCAGCTTCTCTGCCCACTCATTCTAGTCCAGCCGATTTACAGCAGTGCCTTCTGGGGTG
TCCCCCACACCTGCTTTGGCCCCAGAGGCGAGGACCAGTGGAGGTGCCAGGGAGGCC
CCAGGACCCTGTGGTCCCCTGGCTCTGCCTCCCCACCTGGGGTGGGGCTCCCGGCCAC
CTGTCTTGTCTCATGGAGTACATAAGCCAACGCCAGAGCCCTCCACCTCAGGCCCA
GCCCTGCCTCTCCATTATTTATTTGCTCTGCTCTCAGGAAGCGACGTGACCCCTGCCCC
AGCTGGAACCTGGCAGAGGCTTAGGACCCGTTCCAAGTGCCTGCCCCGCAAGCCCC
AGCCTCAGCCTGCGCTGAGCTGCATGCGCCACCATTTTTGGCAGCGTGGCAGCTTTGCA
AGGGGCTGGGGCCCTCGGCGTGGGGCCATGCCTTCTGTGTGTTCTGTAGTGTCTGGGATT
TGCCGGTGTCAATAAATGTTTATTTCATTGAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021625 unedited
GTGGCTGTCAGATTTTGTATACGACTCATATAGCGCGCCGCAATTCGCACGAGGCGGA
TCTCCCGCCGCGCGCCAGCCGTCCTCGGAGGCTGAGCAGTGCAGACGGGCTGGGGC
AGGCATGGCGGATTCCAGCGAAGGCCCCGCGCGGGGCGGGGAGGTGGCTGAGCTCCC
CGGGGATGAGAGTGGCACCCAGGTGGGAGGCTTTTCTCTCTCCTCCCTGGCCAATCT
GTTTGAGGGGAGGATGGCTCCCTTTCGCCCTCACCGGCTGATGCCAGTGCCTGCTGG
CCCAGGCGATGGGCGACCAATCTGCGCATGAAGTTCAGGGCGCCTTCCGCAAGGGGT
GCCCAACCCCATCGATCTGCTGGAGTCCACCCTATATGAGTCTCGGTGGTGCCTGGGCC
CAAGAAAGCACCCATGGACTCACTGTTTACTACGGCACCTATCGTCACCACTCCAGTGA
CAACAAGAGGTGGAGGAAGAAGATCATAGAGAAGCAGCCGAGGCCCAAGGCCCTGC
CCCTCAGCCGCCCCATCCTCAAAGTCTTCAACCGGCCTATCCTCTTTGACATCGTGTCT
CCGGGGTCCACTGCTGACCTGGACGGGCTGCTCCATTCTTGTGACCCACAAGAAACG
CCTAACTGATGAGGAGTTTCGAGAGCCATCTACGGGAAGACCTGCCTGCCCAAGGCCTT
GCTGAACCTGAGCAATGGCCGCAACGACACCATCCCTGTGCTGCTGGACATCGGGAGCG
CACCGCAACATGCGGGAGTTTATTAACTCGCCCTTCCGTGACATCTACTATCGAGGTCA
GACAGCCCTGCACATCGCCATTGAGCGTCCCTTGAACACTACGTGGAACCTCTCGTGCC
CCAGGNAGCTGATGTCC

Restriction Sites:

NotI-NotI

ACCN:

NM_021625

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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this 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:	<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_021625.3 , NP_067638.3
RefSeq Size:	3254 bp
RefSeq ORF:	2616 bp
Locus ID:	59341
UniProt ID:	Q9HBA0
Cytogenetics:	12q24.11
Domains:	ANK, ion_trans
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Gene Summary:	<p>This gene encodes a member of the OSM9-like transient receptor potential channel (OTRPC) subfamily in the transient receptor potential (TRP) superfamily of ion channels. The encoded protein is a Ca²⁺-permeable, nonselective cation channel that is thought to be involved in the regulation of systemic osmotic pressure. Mutations in this gene are the cause of spondylometaphyseal and metatropic dysplasia and hereditary motor and sensory neuropathy type IIC. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2010]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>