

Product datasheet for **SC122052**

TRPV4 (NM_147204) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPV4 (NM_147204) 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)



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Fully Sequenced ORF: >OriGene ORF within SC122052 sequence for NM_147204 edited (data generated by NextGen Sequencing)

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ATGGCGGATTCCAGCGAAGGCCCGCGCGGGGCCGGGGAGGTGGCTGAGCTCCCCGGG
GATGAGAGTGGCACCCAGGTGGGGAGGCTTTTCTCTCTCCCTGGCCAATCTGTTT
GAGGGGGAGGATGGCTCCCTTCGCCCTCACCGGCTGATGCCAGTCGCCCTGCTGGCCCA
GGCGATGGGCGACCAAATCTGCGCATGAAGTTCAGGGCGCCTCCGCAAGGGGGTGCC
AACCCCATCGATCTGCTGGAGTCCACCCTATATGAGTCCCTCGGTGGTGCCTGGGCCAAG
AAAGCACCCATGGACTCACTGTTTACTACGGCACCTATCGTCACCACTCCAAGTACAAC
AAGAGGTGGAGGAAGAAGATCATAGAGAAGCAGCCGAGAGCCCCAAAGCCCTGCCCT
CAGCCGCCCCCATCCTCAAAGTCTTAAACCGGCTATCCTCTTTGACATCGTGTCCCGG
GGCTCCACTGCTGACCTGGACGGGCTGCTCCATTCTTGCTGACCCACAAGAAACGCCTA
ACTGATGAGGAGTTTCGAGAGCCATCTACGGGGAAGACCTGCCTGCCAAGGCCTTGCTG
AACCTGAGCAATGGCCGCAACGACACCATCCCTGTGCTGCTGGACATCGCGGAGCGCACC
GGCAACATGCGGGAGTTCATTAACCTGCCCTTCGGTGACATCTACTATCGAGGTCAGACA
GCCCTGCACATCGCCATTGAGCGTCGCTGCAAACACTACGTGGAATTCTCGTGGCCAG
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AACATGAAGGTGTGCAATGAGGACCAGACCAACTGCACAGTGCCCACTTACCCCTCGTGC
CGTGACAGCGAGACCTTACGACCTTCTCCTGGACCTGTTAAGCTGACCATCGGCATG
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ACAGTGGGCCAGGTCTCCAAGGAGAGCAAGCACATCTGGAAGCTGCAGTGGGCCACCACC
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CGTGGTCTCGGTGGTACCCCGCTGGTGGAACTGAACAAGAATCGAACCAGGACGAG
GTGGTGGTGCCTCTGGACAGCATGGGAACCCCGCTGCGATGGCCACCAGCAGGGTTAC
CCCCGCAAGTGGAGGACTGATGACGCCCGCTCTAG
    
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Clone variation with respect to NM_147204.2
670 a=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_147204 unedited GATATTTGTAATCAGCACTTCACTATAGGGCGGCACGCGCAATTCGGCACGAGGTACCCT GGTACTCCATCACTAACCTGCTGTGTGACCTCAGGCTGAGCAGTGCAGACGGGCTGGGG CAGGCATGGCGGATTCCAGCGAAGGCCCGCGGGGGCCGGGGAGGTGGCTGAGCTCC CCGGGGATGAGAGTGGCACCCCAGGTGGGAGGCTTTTCTCTCTCCTCCCTGGCCAATC TGTTTGAAGGGGAGGATGGCTCCCTTTCGCCCTCACCGGCTGATGCCAGTCGCCCTGCTG GCCCAACCCCATCGATCTGCTGGAGTCCACCCTATATGAGTCCTCGGTGGTGCCTGGGC TGCCAAAGCACCATGGACTACTGTTTACTACGGCACCTATCGTCACCACTCCAAGT ACAACAAGAGGTGGAGGAAGAAGATCATAGAGAAGCAGCCGAGAGCCCCAAAGCCCTG CCCCTCAGCCGCCCCCATCCTCAAAGTCTTCAACCGGCCTATCCTCTTTGACATCGTGT CCCGNGTCCACTGCTGACCTGGACGGGCTGCTCCATTCTTGCTGACCCANCAGAAAC GCCTAACTGATGANGAGTTNCGAGAGCCATCTACGGGGAAGACCTGCCTGCCAAGGCCT TTGCTGACCTGAGCAATGGCCGCNACGACACCATCCNTGTGCTGCTGGACATCGCGNAG CGCCACGGGCACATGCNGGAGTTCACTACTCGCCCTTTCGTGACTCTACTTTGAGTGCAG ACAGCCCTGCCATCGCCATGAACGTGCTGCAACTACGTGAACTTCTCGTGCCCAAGG AAGCTGATGTCCACGCCAAGCCCTGGGGCCTTTTCCACCCAGGTGAAGGGGGTACCT CTACTTTGGNACCTGCCCTGTCCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_147204 unedited TACTTTGGACNCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTCAATGAA TAAACATTTATTGAGCACCGCAATCCCAGACTACAGAACACACAGAAGGCATGGCC CCACGCCGAGGGCCCCAGCCCTTGCAAAGCTGCCACGCTGCCAAAAATGGTGGCGCATG CAGCTCAGGCGCAGGCTGAGGCTGGGGCTTGGCCGGCAGTGCACCTTGAACGGGGTCT AAGGCCTCTGCCAGTTCAGCTGGGGCAGGGTACGTCGCTTCTGAGAGCAGAGCAA ATAAATAATGGAGAGGCAGGGGCTGGGGCTGAGGTGGAGGGGCTCTGGCGTTGGCTTAT GTGACTCCATAGGAGCAAGACAGGTGGCCGGGAGCCCCACCCAGGGTGGGGAGGCAGA GCCACGGGACCACAGGTCTGGGGCTCCCTGGCACCTCCACTGGTCCCTCGCCTCTGG GGCCAAAGCAGGGTGTGGGGGACACCCAGAAGGCAGTCTGAAATGCGGCTGGACTAG AAATGAGTGGGCAGAGAAGCTGGGGCTGGGCTGCAGTCCCTAGAGCGGGGCTCATCAGT CCTCCACTTGCGGGGTAACCCCTGCTGGTGGCCATCGCAGCGGGGTTCCCATGCTGTC CAGAGGACACCACCTCGTCCGGTTCGAGTTCTTGTTCAAGTCCACCACGCGGNGTAC CACCGAGGACCAGCGATCCCTGCGGAGGCGGCCACGGTATGCGAGAAGCCATAACTG GTAGGTCTCATTCTGCCCAGGCTCCTGTTGATGATGCCCAAGTCTGGTTCCAGTGAGA CCAGTTCACCTCATCCACCCTGAAGCACACCTGTCGTGAGAAAGTCCCGTCCGAGCTTTC CCACGGTGACATCTCCAGACGGAAGCCTTCTCAGAATACGGGAAGAGCGT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_147204
Insert Size:	3150 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_147204.1 , NP_671737.1
RefSeq Size:	3057 bp
RefSeq ORF:	2436 bp
Locus ID:	59341
UniProt ID:	Q9HBA0
Cytogenetics:	12q24.11
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 (2) lacks an alternate in-frame exon compared to variant 1, resulting in an isoform (b) that lacks an internal segment compared to isoform a.</p>