

Product datasheet for **SC329163**

TRPV4 (NM_001177431) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPV4 (NM_001177431) 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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001177431, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGATTCCAGCGAAGGCCCCCGCGGGGGCCGGGGAGGTGGCTGAGCTCCCCGGG
GATGAGAGTGGCACCCAGGCGATGGGCGACCAAACTGCGCATGAAGTTCCAGGGCGCC
TTCCGCAAGGGGGTGCCCAACCCATCGATCTGCTGGAGTCCACCCTATATGAGTCCTCG
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TTTGACATCGTGTCCCGGGCTCCTACTGCTGACCTGGACGGGCTGCTCCATTCTTGCTG
ACCCACAAGAAACGCCTAACTGATGAGGAGTTTCGAGAGCCATCTACGGGGAAGACTGC
CTGCCAAGGCCTTGCTGAACCTGAGCAATGGCCGCAACGACACCATCCCTGTGCTGCTG
GACATCGCGGAGCGCACCGCAACATGAGGGAGTTCATTAACCTCGCCCTCCGTGACATC
TACTATCGAGGTGACAGCCCTGCACATCGCCATTGAGCGTCGCTGCAAACACTACGTG
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CCCAAGGATGAGGGGGGCTACTTCTACTTTGGGGAGCTGCCCTGTCGCTGGCTGCCTGC
ACCAACAGCCCCACATTGTCAACTACCTGACGGAGAACCCCAAGAAGGCGGACATG
CGGCGCCAGGACTCGCGAGGCAACACAGTGTGTCATGCGCTGGTGGCCATTGCTGACAAC
ACCCGTGAGAACCAAGTTTGTACCAAGATGTACGACCTGCTGCTGCTCAAGTGTGCC
CGCCTCTTCCCGACAGCAACCTGGAGGCCGTGCTCAACAACGACGGCCTCTCGCCCTC
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GAGATCCTGGTGTACAACAGCAAGATTGAGAACCGCCACGAGATGCTGGCTGTGGAGCCC
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CCCACTTACCCTCGTGCCGTGACAGCGAGACCTTACGACCTTCTCCTGGACCTGTTT
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TTCATCATCTGCTGGTGACCTACATCATCCTCACCTTGTGCTGCTCCTCAACATGCTC
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GTGCAGTGGGCCACCACCATCTGGACATTGAGCGCTCCTTCCCGTATTCTGAGGAAG
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AGGTGGTCTTACGGGTGGATGAGGTGAAGTGGTCTCACTGGAACCAAGAACTTGGGCATC
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GGCCGCTCCGCAGGGATCGCTGGTCTCGGTGGTACCCCGCTGGTGGAACTGAACAAG
AACTCGAACCCGACGAGGTGGTGGTGCCTCTGGACAGCATGGGGAACCCCGCTGCGAT
GGCCACCAGCAGGGTTACCCCGCAAGTGGAGGACTGATGACGCCCGCTCTAG

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Restriction Sites: Please inquire
ACCN: NM_001177431

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:	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.
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:	<u>NM_001177431.1</u> , <u>NP_001170902.1</u>
RefSeq Size:	3059 bp
RefSeq ORF:	2514 bp
Locus ID:	59341
UniProt ID:	<u>Q9HBA0</u>
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 (4) lacks a segment in the 5' coding region coding region, compared to variant 1. The encoded isoform (d) is shorter, compared to isoform a.</p>