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Product datasheet for SC329157

TRPV4 (NM_001177428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPV4 (NM_001177428) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRPV4
Synonyms:	BCYM3; CMT2C; HMSN2C; OTRPC4; SMAL; SPSMA; SSQTL1; TRP12; VRL2; VROAC
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_001177428 edited
GCGGATCTCCCGGCCGCCGGCGCCCAGCCGTCCCGGAGGCTGAGCAGTGCAGACGGGCCT
GGGGCAGGCATGGCGGATTCCAGCGAAGGCCCCCGCGCGGGGCCCGGGGAGGTGGCTGAG
CTCCCCGGGGATGAGAGTGGCACCCCAGGTGGGGAGGCTTTTCCTCTCTCCTCCCTGGCC
AATCTGTTTGAGGGGGAGGATGGCTCCCTTTCGCCCTCACCGGCTGATGCCAGTCGCCCT
GCTGGCCCAGGCGATGGGCGACCAAATCTGCGCATGAAGTTCCAGGGCGCCTTCCGCAAG
GGGGTGCCCAACCCCATCGATCTGCTGGAGTCCACCCTATATGAGTCCTCGGTGGTGCCT
GGGCCCAAGAAAGCACCCATGGACTCACTGTTTGACTACGGCACCTATCGTCACCACTCC
AGTGACAACAAGAGGTGGAGGAAGAAGATCATAGAGAAGCAGCCGCAGAGCCCCAAAGCC
CCTGCCCCTCAGCCGCCCCCCATCCTCAAAGTCTTCAACCGGCCTATCCTCTTTGACATC
GTGTCCCGGGGCTCCACTGCTGACCTGGACGGGCTGCTCCCATTCTTGCTGACCCACAAG
AAACGCCTAACTGATGAGGAGTTTCGAGAGCCATCTACGGGGAAGACCTGCCTGCCCAAG
GCCTTGCTGAACCTGAGCAATGGCCGCAACGACACCATCCCTGTGCTGCTGGACATCGCG
GAGCGCACCGGCAACATGCGGGAGTTCATTAACTCGCCCTTCCGTGACATCTACTATCGA
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ACGGAGAACCCCCACAAGAAGGCGGACATGCGGCGCCAGGACTCGCGAGGCAACACAGTG
CTGCATGCGCTGGTGGCCATTGCTGACAACACCCGTGAGAACACCAAGTTTGTTACCAAG
ATGTACGACCTGCTGCTGCTCAAGTGTGCCCGCCTCTTCCCCGACAGCAACCTGGAGGCC
GTGCTCAACAACGACGGCCTCTCGCCCCTCATGATGGCTGCCAAGACGGGCAAGATTGGG
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GACACGTGTGGGGAAGAGGCCTCCGTGCTGGAGATCCTGGTGTACAACAGCAAGATTGAG
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ACGGTGGACTACCTGCGGCTGGCTGGCGAGGTCATTACGCTCTTCACTGGGGTCCTGTTC
TTCTTCACCAACATCAAAGACTTGTTCATGAAGAAATGCCCTGGAGTGAATTCTCTCTTC
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ATTGATGGCTCCTTCCAGCTGCTCTACTTCATCTACTCTGTCCTGGTGATCGTCTCAGCA
GCCCTCTACCTGGCAGGGATCGAGGCCTACCTGGCCGTGATGGTCTTTGCCCTGGTCCTG
GGCTGGATGAATGCCCTTTACTTCACCCGTGGGCTGAAGCTGACGGGGACCTATAGCATC
ATGATCCAGAAGATTCTCTTCAAGGACCTTTTCCGATTCCTGCTCGTCTACTTGCTCTTC
ATGATCGGCTACGCTTCAGCCCTGGTCTCCCTCCTGAACCCGTGTGCCAACATGAAGGTG
TGCAATGAGGACCAGACCAACTGCACAGTGCCCACTTACCCCTCGTGCCGTGACAGCGAG
ACCTTCAGCACCTTCCTCCTGGACCTGTTTAAGCTGACCATCGGCATGGGCGACCTGGAG
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CTCACCTTTGTGCTGCTCCTCAACATGCTCATTGCCCTCATGGGCGAGACAGTGGGCCAG
GTCTCCAAGGAGAGCAAGCACATCTGGAAGCTGCAGTGGGCCACCACCATCCTGGACATT
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TACCAGTATTATGGCTTCTCGCATACCGTGGGCCGCCTCCGCAGGGATCGCTGGTCCTCG
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CTGGACAGCATGGGGAACCCCCGCTGCGATGGCCACCAGCAGGGTTACCCCCGCAAGTGG
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GCCCCAGAGGCGAGGGACCAGTGGAGGTGCCAGGGAGGCCCCAGGACCCTGTGGTCCCCT
GGCTCTGCCTCCCCACCCTGGGGTGGGGGCTCCCGGCCACCTGTCTTGCTCCTATGGAGT
CACATAAGCCAACGCCAGAGCCCCTCCACCTCAGGCCCCAGCCCCTGCCTCTCCATTATT
TATTTGCTCTGCTCTCAGGAAGCGACGTGACCCCTGCCCCAGCTGGAACCTGGCAGAGGC
CTTAGGACCCCGTTCCAAGTGCACTGCCCGGCCAAGCCCCAGCCTCAGCCTGCGCCTGAG
CTGCATGCGCCACCATTTTTGGCAGCGTGGCAGCTTTGCAAGGGGCTGGGGCCCTCGGCG
TGGGGCCATGCCTTCTGTGTGTTCTGTAGTGTCTGGGATTTGCCGGTGCTCAATAAATGT
TTATTCATTGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001177428

Insert Size: 3100 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).

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:
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_001177428.1, NP_001170899.1
RefSeq Size:	3051 bp
RefSeq ORF:	2475 bp
Locus ID:	59341
UniProt ID:	Q9HBA0
Cytogenetics:	12q24.11
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Gene Summary:	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] Transcript Variant: This variant (5) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (c) is shorter, compared to isoform a.