OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC227667

Trpc4 (NM_001253683) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc4 (NM_001253683) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpc4
Synonyms:	CCE1; STRPC4; Trp4; Trrp4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC227667 representing NM_001253683
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGTTCTATTACAAAAGAAATGTCAACGCCCCCTACAGAGACCGCATCCCACTGAGGATTGTCA
GAGCAGAATCTGAGCTCTCACCATCAGAGAAAGCCTACTTGAATGCTGTGGAGAAGGGGGACTATGCAAG
CGTCAAGAAGTCTCTGGAGGAAGCTGAGATTTATTTTAAAATCAACATTAACTGCATCGACCCCCTGGGA
AGGACCGCCCTCCTCATTGCCATTGAAAATGAGAATCTGGAGCTTATTGAACTATTGTTGAGTTTCAATG
TCTATGTAGGCGATGCGCTGCTTCACGCCATCAGAAAAGAGGTGGTTGGAGCCGTGGAGCTACTGCTGAA
CCACAAAAAGCCAAGTGGAGAGAAGCAGGTGCCTCCCATTCTCCTTGATAAACAGTTCTCTGAATTCACT
CCGGACATCACACCCATCATCTTGGCTGCACATACAAATAATTACGAGATAATCAAACTTTTGGTTCAGA
AAGGTGTCTCAGTGCCCAGACCCCACGAGGTCCGCTGTAACTGTGTTGAGTGTGTCTCCAGCTCGGATGT
GGACAGCCTCAGGCATTCACGGTCCAGGCTCAACATCTACAAGGCCTTGGCCAGCCCCTCGCTCATTGCC
CTGTCAAGCGAAGACCCTTTCCTTACTGCCTTTCAGTTAAGTTGGGAGCTGCAAGAACTCAGCAAGGTGG
AGAACGAATTCAAGTCGGAGTATGAGGAGCTGTCTAGACAGTGCAAACAATTTGCCAAGGACCTCCTAGA
TCAGACACGGAGTTCCAGAGAGCTGGAAATCATTCTTAATTACCGTGATGACAATAGTCTGATCGAAGAA
CAGAGTGGAAATGATCTTGCAAGGCTAAAATTAGCCATTAAGTACCGTCAAAAAGAGTTTGTTGCTCAGC
CCAACTGCCAGCAGCTGCTCGCTTCCCGCTGGTACGATGAGTTCCCAGGCTGGAGGAGAAGACACTGGGC
GGTGAAGATGGTGACGTGTTTCATAATAGGACTACTCTTCCCCGTCTTCTCCGTGTGCTACCTGATAGCT
CCCAAAAGCCCACTTGGACTGTTCATCAGAAAGCCATTTATCAAGTTTATCTGCCACACAGCCTCCTATC
TGACCTTTTTGTTTCTGCTGCTGCTAGCCTCTCAGCACATCGACAGGTCAGACTTGAACAGGCAAGGTCC
ACCACCAACCATCGTGGAGTGGATGATATTACCGTGGGTCCTGGGTAAATGTGTTACTCTAGAAAATATA
ATAACGAACGTGTCTCTGCCGTGGAATTTTGTTGCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Restriction Sites:	SgfI-MluI
ACCN:	NM_001253683
Insert Size:	1299 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001253683.1, NP_001240612.1
RefSeq Size:	2986 bp
RefSeq ORF:	1299 bp
Locus ID:	22066
Cytogenetics:	3 25.43 cM
Gene Summary:	Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Acts as a cell-cell contact-dependent endothelial calcium entry channel. Has also been shown to be calcium-selective (By similarity). May also be activated by intracellular calcium store depletion. Trpc4 deficient mice lack a store-operated calcium entry in endothelial cells.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) lacks several exons and its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR compared to variant 1. It encodes isoform 3 which is shorter and has a distinct C-terminus compared to isoform 1.