

Product datasheet for **MC222901**

Trpc4 (NM_016984) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc4 (NM_016984) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpc4
Synonyms:	CCE1; STRPC4; Trp4; Trrp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222901 representing NM_016984
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAGTTCTATTACAAAAGAAATGTCAACGCCCCCTACAGAGACCGCATCCCCTGAGGATTGTCA
 GAGCAGAATCTGAGCTCTCACCATCAGAGAAAGCCTACTTGAATGCTGTGGAGAAGGGGGACTATGCAAG
 CGTCAAGAAGTCTCTGGAGGAAGCTGAGATTTATTTTAAAATCAACATTAAGTGCATCGACCCCTGGGA
 AGGACCGCCCTCCTCATTGCCATTGAAAATGAGAATCTGGAGCTTATTGAACTATTGTTGAGTTTCAATG
 TCTATGTAGGCGATGCGCTGCTTACGCCATCAGAAAAGAGGTGGTTGGAGCCGTGGAGCTACTGCTGAA
 CCACAAAAGCCAAGTGGAGAGAAGCAGGTGCCTCCCATTCTCCTTGATAAACAGTTCTCTGAATCACT
 CCGGACATCACACCCATCATCTTGGCTGCACATACAAATAATTACGAGATAATCAAACCTTTGGTTGAGA
 AAGGTGTCTCAGTCCCAGACCCACGAGTCCGCTGAACTGTGTTGAGTGTCTCCAGCTCGGATGT
 GGACAGCCTCAGGCATTCAGGTCAGGCTCAACATCTACAAGGCCTTGGCCAGCCCTCGCTCATTGCC
 CTGTCAAGCGAAGACCCTTCTTACTGCCTTTCAGTTAAGTTGGGAGCTGCAAGAACTAGCAAGGTGG
 AGAACGAATCAAGTCGGAGTATGAGGAGCTGTCTAGACAGTGAACAATTTGCCAAGGACCTCCTAGA
 TCAGACACGGAGTTCAGAGAGCTGAAAATCATTCTTAATTACCGTGATGACAATAGTCTGATCGAAGAA
 CAGAGTGGAAATGATCTTGCAAGGCTAAAATTAGCCATTAAGTACCGTCAAAAAGAGTTTGTGCTCAGC
 CCAACTGCCAGCAGCTGCTCGCTTCCCGCTGGTACGATGAGTCCAGGCTGGAGGAGAAGACACTGGGC
 GGTGAAGATGGTACGTGTTTATAATAGGACTACTCTCCCGCTTCTCCGTGTGCTACCTGATAGCT
 CCCAAAAGCCACTTGGACTGTTTCATCAGAAAGCCATTTATCAAGTTTATCTGCCACACAGCCTCCTATC
 TGACCTTTTGTCTGCTGCTAGCCTCTCAGCACATCGACAGGTCAGACTTGAACAGGCAAGGTTCC
 ACCACCAACCATCGTGGAGTGGATGATATTACCGTGGTCTGGGTTTTATATGGGGAGAGATTAACACAG
 ATGTGGGATGGCGGACTCCAGGATTACATCCATGACTGGTGAATCTAATGGACTTTGTGATGAACTCCT
 TGTATCTGGCAACAATCTCCTTGAAGATTGTCGCGTTTGTAAAGTACAGTCTGTAACCCACGGGAATC
 ATGGGACATGTGGCACCCACCCTGGTGGCAGAGGCATTATTTGCTATTGCAAACATCTTCAAGTCCCTC
 CGCCTGATCTCTGTTCACTGCCAATTCTCACCTGGGCCTCTGCAGATATCTTGGGAAGGATGCTTC
 TGGACATCTGAAGTCTTGTTCATCTACTGCCTCGTGTGCTAGCTTTTGCAAATGGCCTAAATCAGCT
 GTACTTTTACTATGAAGAAACAAAGGGGCTAAGCTGCAAAGGCATCCGGTGGGAGAAACAGAAACAACGG
 TTTTCCACGTTATTCGAGACACTACAGTCCCTGTTTTGGTCAATATTTGGACTCATCAATCTCTATGTTA
 CCAATGTCAAAGCCAGCAGGATTCAGTGAAGTTGTTGGGGCCACCATGTTGGCAGATATAATGTCAT
 CTCTCTGGTTGCTGCTGAACATGTTAATTGCTATGATGAATAATTCTTACCAACTAATTGCCGACCAT
 GCAGATATAGAATGGAATTTGCTCGAACAAAGCTTTGGATGAGCTACTTTGAAGAAGGAGGTACCTGCT
 CTACACCTTTCAATGTCATCCCAAGCCCAAGTCCCTGTGGTACCTGGTCAAGTGGATAAGGACACACTT
 ATGTAAGAAAAAATGAGAAGGAAGCCAGAAAGCTTCGGGACAATTGGGCGGCGTGTGCTGATAACTTG
 AGAAGACATACCAATACCAAGAGGTGATGAGGAACCTGGTGAAGCGGTACGTGGCAGCCATGATCAGAG
 AGGCAAAAACCGAAGAAGGCTTACGGAGGAGAATGTTAAGGAACTAAAGCAAGACATTTCTAGCTTCCG
 CTTGCAAGTTCTGGGATTGCTCAGAGGAAGCAAGCTCTCTACAATACAGTCAGCCAACCGGGCGAGTTCA
 GCGGACTCCGACGAGAAGGCCAGAGCGAAGGTAATGGCAAGGACAAGAGAAAGAATCTCAGCCTTTTG
 ATTTAACCACTCTGATCCACCCGCGTCCGAGCATTGCTCCGAGAGACATAACCTAAGCAATGGTTC
 CGCCCTGGTGGTGCAGGAGCCGCCAGGGAGAAGCAGAGGAAAGTGAATTTGTGGCTGATATCAAAAAC
 TTCGGGTTATTTATAGACGGTCAAAAACAAAATGCTGCTGAGCAAAAACGAAAACAAATCTTCTCTGTTT
 CAGAAGAAATTAAGTCAACAGGCGGCAGGAGCACTTGGAGCAAAATATCGAACTGGAATCCAAAGGATT
 AGCTTACGGGGTACCCGAGCATTCTGGTCTCAATGAACAGTGTGTGCTAGTAGACCATAGAGAAAGG
 AATACGGACACTTTGGGTTTACAGGTAGCAAGAGAGTGTGCTCCACCTTCAAGTCGGAGAAGGTGGTGG
 TGAAGACACCGTCCCTATTATACCAAAGGAGAAACACGCCACGAGGAGGACTCGAGCATAGACTATGA
 CTTAAGCCCCACGGACACAGCTGCCACGAAGATTATGTGACCACAAGATTG**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	https://cdn.origene.com/chromatograms/ja2702_g11.zip
Restriction Sites:	Sgfl-RsrII
ACCN:	NM_016984
Insert Size:	2925 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_016984.3 , NP_058680.1
RefSeq Size:	3490 bp
RefSeq ORF:	2925 bp
Locus ID:	22066
UniProt ID:	Q9QUQ5
Cytogenetics:	3 25.43 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>