

Product datasheet for **MC229112**

Trpc4 (NM_001253682) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc4 (NM_001253682) 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



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Fully Sequenced ORF: >MC229112 representing NM_001253682
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCAGTTCTATTACAAAAGAAATGTCAACGCCCCCTACAGAGACCGCATCCCCTGAGGATTGTCA
 GAGCAGAACTCTGAGCTCTCACCATCAGAGAAAGCCTACTTGAATGCTGTGGAGAAGGGGGACTATGCAAG
 CGTCAAGAAGTCTCTGGAGGAAGCTGAGATTTATTTTAAAATCAACATTAAGTGCATCGACCCCTGGGA
 AGGACCGCCCTCCTCATTGCCATTGAAAATGAGAATCTGGAGCTTATTGAACTATTGTTGAGTTTCAATG
 TCTATGTAGGCGATGCGCTGCTTACGCCATCAGAAAAGAGGTGGTTGGAGCCGTGGAGCTACTGCTGAA
 CCACAAAAGCCAAGTGGAGAGAAGCAGGTGCCCTCCATTCTCCTTGATAAACAGTTCTCTGAATCACT
 CCGGACATCACACCCATCATCTTGGCTGCACATACAAAATAATTACGAGATAATCAAACCTTTGGTTGAGA
 AAGGTGTCTCAGTGCCAGACCCACGAGGTCCGCTGTAAGTGTGTTGAGTGTCTCCAGCTCGGATGT
 GGACAGCCTCAGGCATTCACGGTCCAGGCTCAACATCTACAAGGCCTTGCCAGCCCTCGCTCATTGCC
 CTGTCAAGCGAAGACCCTTTCCTTACTGCCTTTCAGTTAAGTTGGGAGCTGCAAGAACTCAGCAAGGTGG
 AGAACGAATTAAGTCGGAGTATGAGGAGCTGTCTAGACAGTGCAAAACAATTTGCCAAGGACCTCCTAGA
 TCAGACACGGAGTTCAGAGAGCTGAAATCATTCTTAATTACCGTGTGACAATAGTCTGATCGAAGAA
 CAGAGTGGAAATGATCTTGCAAGGCTAAAATTAGCCATTAAGTACCGTCAAAAAGAGTTTGTGCTCAGC
 CCAACTGCCAGCAGCTGCTCGCTTCCGCTGGTACGATGAGTTCACAGGCTGGAGGAGAAGACACTGGGC
 GGTGAAGATGGTACGTGTTTTCATAATAGGACTACTCTCCCCGTCTTCCGTGTGCTACCTGATAGCT
 CCCAAAAGCCCACTTGGACTGTTTCATCAGAAAGCCATTTATCAAGTTTATCTGCCACACAGCCTCCTATC
 TGACCTTTTGTCTGCTGCTAGCCTCTCAGCACATCGACAGGTCAGACTTGAACAGGCAAGGTCC
 ACCACCAACCATCGTGGAGTGGATGATATTACCGTGGTCTGGGTTTTATATGGGAGAGATTAACAG
 ATGTGGGATGGCGGACTCCAGGATTACATCCATGACTGGTGAATCTAATGGACTTTGTGATGAACTCCT
 TGTATCTGGCAACAATCTCCTTGAAGATTGTCGCGTTTGTAAAGTACAGTGTCTGAACCCACGGGAATC
 ATGGGACATGTGGCACCCACCCTGGTGGCAGAGGCATATTTGCTATTGCAAACATCTCAGTTCCTC
 CGCCTGATCTCTGTTCACTGCCAATTCTCACCTGGGCTCTCGAGATATCTTGGGAAGGATGCTTC
 TGGACATCCTGAAGTTCTTGTTCATCTACTGCCTCGTGTGCTAGCTTTTCAAATGGCCTAAATCAGCT
 GTACTTTTACTATGAAGAAACAAAGGGCTAAGCTGCAAAGGCATCCGGTGCAGAAAACAGAACAACGCG
 TTTTCCACGTTATTCGAGACACTACAGTCCCTGTTTGGTCAATATTTGGACTCATCAATCTCTATGTTA
 CCAATGTCAAAGCCAGCACGAGTTCAGTGAAGTTTGGGGCCACCATGTTGGCAGATATAATGTCAT
 CTCTCTGGTTGCTGCTGAACATGTTAATTGCTATGATGAATAATTCTTACCAACTAATTGCCGACCAT
 GCAGATATAGAATGGAATTTGCTCGAACAAGCTTTGGATGAGCTACTTTGAAGAAGGAGGTACCCTGC
 CTACACCTTTCATGTCAATCCCAAGCCCAAGTCCCTGTGGTACCTGGTCAAGTGGATATGGACACACTT
 ATGTAAGAAAAAATGAGAAGGAAGCCAGAAAGCTTCGGGACAATTTGGGCGCGTGTGCTGATAACTTG
 AGAAGACATACCAATACCAAGAGGTGATGAGGAACCTGGTGAAGCGGTACGTGGCAGCCATGATCAGAG
 AGGCAAAAACCGAAGAAGGCTTACGGAGGAGAATGTTAAGGAACTAAAGCAAGACATTTCTAGCTTCCG
 CTTGAAAGTTCTGGGATTGCTCAGAGGAAGCAAGCTCTACAATACAGTCAGCCAACGGCGGAGTTCA
 GCGGACTCCGACGAGAAGAGCCAGAGCGAAGAAGAAATTAAGTCAACAGGCGGACAGGACTTGGAGC
 GAAATATCGAACTGGAATCCAAAGGATTAGCTTACGGGTGACCGCAGCATTCTGGTCTCAATGAACA
 GTGTGTGCTAGTAGACCATAGAGAAAGGAATACGGACACTTTGGGTTTACAGGTAGGCAAGAGAGTGTGC
 TCCACCTTCAAGTCGGAGAAGGTGGTGGTGAAGACACCGTCCCTATTATACCAAAGGAGAAACAGGCC
 ACGAGGAGGACTCGAGCATAGACTATGACTTAAGCCCCACGGACACAGCTGCCACGAAGATTATGTGAC
 CACAAGATT**GTGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
 ACCN: NM_001253682

Insert Size:	2673 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:	<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_001253682.1, NP_001240611.1</u>
RefSeq Size:	3238 bp
RefSeq ORF:	2673 bp
Locus ID:	22066
UniProt ID:	<u>Q9QUQ5</u>
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 (2) lacks an alternate in-frame coding segment in the last exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>