

## Product datasheet for **SC310083**

### TRPC3 (NM\_003305) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TRPC3 (NM\_003305) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TRPC3  
**Synonyms:** SCA41; TRP3  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_003305 edited  
CGTCTCTCTGTGGTTTCAGTCACATTTGGGGTAAAACCTGGAACCGAAGCCCTATAGGGTCC  
CCTGAGGGAGAGAGTGGGCATCGGGCAGCCGGGAACCGCTTTAGTGATAACTTTGACTG  
CGGTTCCAGGGGTGCAGGGTCAGCGGCTCGCGCCCGGCGCGGGCTCTCTTTTTCT  
CTTTCTTTCTTTCCCTCTCTCTTTCTAAACGAAGGAGCGGTCCGGCGCCTAATGCATG  
AGAAAGAGCAACTTTTCTTAATTTCAATCTTGGAGACAGCTTTAATCAGTGCGAGACGC  
AGAGAAGATGAAAAGAGGGTGATCGGTTTACAGGGTCCATGGAGGGAAGCCATCCCTG  
AGACGCATGACAGTGATGCGGGAGAAGGGCCGGCGCCAGGCTGTCAGGGGCCGGCTTC  
ATGTTCAATGACCGCGCACAGCCTCACCGCGAGGAGGAGCGCTTCTCGACGCCGC  
GAGTACGGCAACATCCCAGTGGTGCAGCAAGATGCTGGAGGAGTCCAAGACGCTGAACGC  
AACTGCGTGGACTACATGGGCCAGAACCGCTGCAGCTGGCTGTGGGCAACGAGCACCTG  
GAGGTGACCGAGCTGCTGCTCAAGAAGGAGAACCTGGCGCGCATTGGCGACGCCCTGCTG  
CTCGCCATCAGCAAGGGCTACGTGCGCATCGTAGAGGCCATCCTCAACCACCTGGCTTC  
GCGGCCAGCAAGCGTCTCACTCTGAGCCCTGTGAGCAGGAGCTGCAGGACGACGACTTC  
TACGCTTACGACGAGGACGGCACGCGCTTCTCGCCGGACATCACCCCATCATCTGGCG  
GCGCACTGCCAGAAATACGAAGTGGTGCACATGCTGCTGATGAAGGGTCCAGGATCGAG  
CGGCCGCACGACTATTTCTGCAAGTGCAGGGGACTGCATGGAGAAGCAGAGGCACGACTCC  
TTCAGCCACTACGCTCGAGGATCAATGCCTACAAGGGGCTGGCCAGCCCGCTTACCTC  
TCATTGTCCAGCGAGGACCCGGTCTTACGGCCCTAGAGCTCAGCAACGAGCTGGCCAAAG  
CTGGCCAACATAGAGAAGGATTCAAGAATGACTATCGGAAGCTCTCCATGCAATGCAAA  
GACTTTGTAGTGGTGTGCTGGATCTCTGCCGAGACTCAGAAGAGGTAGAAGCCATTCTG  
AATGGAGATCTGGAATCAGCAGAGCCTCTGGAGGTACACAGGCACAAAGCTTCATTAAGT  
CGTGTCAAACCTTGCCATTAAGTATGAAGTCAAAAAGTTTGTGGCTCATCCCAACTGCCAG  
CAGCAGCTCTTGACGATCTGGTATGAGAACCTCTCAGGCCTAAGGGAGCAGACCATAGCT  
ATCAAGTGTCTCGTTGTGCTGGTGGTGGCCCTGGGCCCTCCATTCTGGCCATTGGCTAC  
TGGATCGCACCTTGCAGCAGGCTGGGGAAAATTCTGCGAAGCCCTTTTATGAAGTTGTG  
GCACATGCAGCTCTTTTCATCATCTTCTGGGTCTGCTTGTGTTCAATGCCTCAGACAGG



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TTCGAAGGCATCACACGCTGCCAATATCACAGTACTGACTATCCCAAACAGATCTTC  
 AGGGTGAAAACCCAGTTTACATGGACTGAAATGCTAATTATGGTCTGGGTTCTTGG  
 ATGATGTGGTCTGAATGTAAGAGCTCTGGCTGGAAGGACCTAGGGAATACATTTTGCAG  
 TTGTGGAATGTGCTTGACTTTGGGATGCTGTCCATCTTCATTGCTGCTTTCACAGCCAGA  
 TTCCTAGCTTTCCTTCAGGCAACGAAGGCACAACAGTATGTGGACAGTTCGTCCTCAAGAG  
 AGTGACCTCAGTGAAGTGACACTCCCACCAGAGATACAGTATTTCACTTATGCTAGAGAT  
 AAATGGCTCCCTTCTGACCCTCAGATTATCTGAAGGCCTTTATGCCATAGCTGTTGTG  
 CTCAGCTTCTCTCGGATTGCGTACATCCTCCTGCAAATGAGAGCTTTGGCCCCCTGCAG  
 ATCTCTCTTGAAGGACTGTAAAGGACATATCAAGTTCATGGTCTCTTTATTATGGTG  
 TTTTTGCCTTTATGATTGGCATGTTTACTTTATTCTTACTACCTTGGGGCTAAAAGTT  
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 TTGTCTGAAGTGACTTCCGTTGTGCTCAAATATGATCACAAATTCATAGAAAATATTGGA  
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 GCTCGTTCAAACCTTTGGTTATCTATTTTGTATGATGGAAAAACATTACCTCCACCTTTC  
 AGTCTAGTTCCCTAGTCCAAAATCATTGTTTATTTTCATCATGCGAATTGTTAACTTTCCC  
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 AGGTAAACCTCTTCACTCAGTCTAACTCAAGAGTTTTTGAATCACACAGTTTTAACAGC  
 ATTCTCAATCAGCCAACCGTTATCAGCAGATAATGAAAAGACTTATAAAGCGGTATGTT  
 TTGAAAGCACAAGTAGACAAAGAAAATGATGAAGTTAATGAAGGTGAATTAAGAAATC  
 AAGCAAGATATCTCCAGCCTTCGTTATGAACTTTTGAAGACAAGAGCCAAGCAACTGAG  
 GAATTAGCCATTCTAATTCATAAACTTAGTGAGAACTGAATCCCAGCATGCTGAGATGT  
 GAATGATACAGCAACCTGGATTTGGCTTTGACTATAGCACAATGTGGGCAATAATATTT  
 CTAAGTATGAAAATACTTGAAAACTATGATGTAATTTTTAGTATTAACCTTTTATCA  
 TGTGAACCTTTAAAAGTTAGCTCTTAATGGTTTTATTGTTTTATCACATGAAAATGCATT  
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 ATATTATTGAAACTTTTTATTCATTTTAGAGTAACTCCACATCTTTGCACTACCTGTTTG  
 CCTCCAAGAGACTATCAGTTCCTTGGGGACAGGGACCATGCTTATTCATCTTTGTGCT  
 CCAGCATAGTACAGTGCCTGGTATATAGTAGGTGCTCAATAAATGTTGAAACCAACTG  
 AACTGCCAACAAAATAAAAAATAAAAGTCTTCACTATGTAGCATACCTTCCCTTGTCCAA  
 GTTCTGAAGAGGTTTTTTTTTTTTTTTTTAAATAGAACTGAAGACATTTTACAACAGCT  
 ATGACTTGGTAAGACATTTAGAAATTTAGGTGCTACTGATAATCCTAGAACCACTGAG  
 CCCAAGTGAAGAATTTAACAACAAAATGGGTTAATGAAAAATATAATTACATTGTATAT  
 TTAAGTTTCATAGAATTTTAAAAACAACATTAAGATTTTTCTAAAAATAAAAAAAA  
 AAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003305 unedited  
 GGTACACCTTGATACGACTCCTATAGGGCGGCCGCGATCACGGCAGGACCGTCTCTCT  
 GTGGTTCAGTACACCCGGGGTAAAACCTGGAACCGAAGCCCTATAGGGTCCCCTGAGGGA  
 GAGAGTGGGCATCGGGCAGCCGGGGAACCGCTTATGTGATAACTTTGACTGCGGTTCCCA  
 GGCGGTGCAGGGTCAAGCGCTCGCGCCCGCGCGGGCTCTTTTTCTTTCTTTCTTTCT  
 TTTCCCTCTCTCTTTTAAACGAAGGAGCGGTGCGCGCTAATGCATGAGAAAGAGC  
 AACTTTTCTTAATTTCCAATCTTGGAGACAGCTTTTAAATCAGTGCAGACGCAGAGAAGA  
 TGAAAAGAGGGTATCGGTTTACAGGGTCCATGGAGGGAAGCCCATCCCTGAGACGCAT  
 GACAGTGTGCGGAGAAAGGGCCGGCCAGGCTGTCAGGGGCCCGCCCTCATGTTCAA  
 TGACCGCGCACAGCCTCACCGCCGAGGAGGAGCGCTTCTCGACGCGCCGAGTACGG  
 CAACATCCCAGTGGTGCAGAAAGATGCTGGAGGAGTCCAAGACGCTGAACGTCAACTGCGT  
 GGACTACATGGGCCAGAACGCGCTGCAGCTGGCTGTGGGCAACGAGCACCTGGAGGTGAC  
 CGAGTGTGCTCAAGAAGGAGAACCTGGCGCGCATTGGCGACGCCCTGTGCTCGCCAT  
 CAGCAAGGGCTACGTGCGCATCGTAGAGGCCATCCTCAACCACCTGGCTTCGCGGCCAG  
 CAAGCGTCTCACTCTGAGCCCTGTGAGCAGAGCTGCAGACGACGACTTCTACGTTACG  
 ACGAGGACGCACGCGCTCTCGCCGGACATACCCCCATCATCCTGCGGCGCACTGCAGAA  
 TACGAAGTGGTGCACATGCTGCTGATGAA

**3' Read Nucleotide Sequence:**

```
>OriGene 3' genomic read for NM_003305 unedited
TCCAGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTTCAGG
AAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTATAT
TTTAGAAAAATCTTTAATGTGTTGTTTTAAATAATTCTATGAAACTTAAATATACAATGT
AATTATATTTTTCATTAACCCATTTTGTGTTAAATTCTTCACTTGGGGCTCAGTGGTTC
TAGGATTATCAGTGACACCTAAAATTCTAAGAATGTCTTACCAAGTCATAGCTGGTTGTA
AAATGTCTTCAGTTTCTATTAACCAAAAAAAAAAAAAACCTTTCAGAACTTGGACAAGGG
AAGGTATGCTACATAGTGAAGACTTTTTATTTTTATTTTGGCAGTTCAGTTGGTTTC
AACATTTATTGAGCACCTACTATATACCAGGCACTGTACTAGATGCTGGAGACACAAAGA
TGAATAAGACATGGTCCCTGTCCCAAGGAACTGATAGTCTCTTGGAGGCAAACAGGTAG
TGCAAAGATGTGGAGTTTACTCTAAAATGAATAAAAGTTTCAATAATATAGTAATATTGG
GCTTTTCAACACAATGGTATGCCACTGTAATGTCAAAGCAGACAATAAAATGCATTTTC
ATGTGATAAAAACAATAAAACCATTAAGAGCTAACTTTTAAAGGTTCAACA
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003305

**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:**

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003305.1</a> , <a href="#">NP_003296.1</a>
<b>RefSeq Size:</b>	3448 bp
<b>RefSeq ORF:</b>	2547 bp
<b>Locus ID:</b>	7222
<b>UniProt ID:</b>	<a href="#">Q13507</a>
<b>Cytogenetics:</b>	4q27
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a membrane protein that can form a non-selective channel permeable to calcium and other cations. The encoded protein appears to be induced to form channels by a receptor tyrosine kinase-activated phosphatidylinositol second messenger system and also by depletion of intracellular calcium stores. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (2) lacks an upstream exon , compared to variant 1, resulting in a different 5' UTR and 5' coding region and translation initiation from an inframe, downstream ATG. The encoded protein (isoform b) has a shorter N-terminus, compared to isoform a.</p>