

## Product datasheet for **SC113118**

### TRP 7 (TRPC7) (NM\_020389) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRP 7 (TRPC7) (NM_020389) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRP 7
Synonyms:	TRP7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_020389, the custom clone sequence may differ by one or more nucleotides

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ATGTTGAGGAACAGCACCTTCAAAAACATGCAGCGCCGGCACACAACGCTGAGGGAGAAGGGCCGTCGCC
AGGCCATCCGGGGTCCCCTACATGTTCAACGAGAAGGGCACCAGTCTGACGCCGAGGAGGAGCGCTT
CCTGGACTCGGCTGAGTATGGCAACATCCCGGTGGTCCGAAAAATGCTGGAGGAGTCCAAGACCCTTAAC
TTCAACTGTGTGACTACATGGGGCAGAACGCTCTGCAGCTGGCCGTGGGCAACGAGCACCTAGAGGTCA
CGGAGCTGCTGTGAAGAAGGAGAACCTGGCACGGGTGGGGGACGCGCTGCTGCTGGCCATCAGCAAGGG
CTATGTGCGCATCGTGGAGGCCATCCTCAACCACCCGGCCTTCGCGCAGGGCCAGCGCCTGACGCTCAGC
CCGCTGGAACAGGAGCTGCGCGACGACGACTTCTATGCCTACGACGAGGACGGCACGCGCTTCTCCACG
ACATCACGCCATCATCCTGGCGGCGACTGCCAGGAGTATGAGATCGTGCACATCCTGCTGCTCAAGGG
CGCCCGCATCGAGCGGCCCCACGACTACTTCTGCAAGTGAATGAGTGCACCGAGAAACAGCGGAAAGAC
TCCTTCAGCCACTCGCGCTCGCGCATGAACGCCTACAAAGGACTGGCGAGTGTGCCTACTTGTCCCTGT
CCAGCGAAGACCCTGTCTCACCGCCCTGGAGCTCAGCAACGAGTTAGCCAGACTAGCCAACATTGAGAC
TGAATTTAAGAACGATTACAGGAAGTTATCTATGCAATGCAAGGATTTTGTAGTGGGCGTCTGGACCTG
TGCCGAGACACAGAAGAGGTGGAAGCAATTTAAACGGTGATGTGAACTTCCAAGTCTGGTCCGACCACC
ACCGTCCAAGTCTGAGCCGGATCAAACCTCGCCATTAATATGAAGTCAAGAAGTTCGTTGCTCATCTAA
CTGTGACAGCAATTGCTTACCATGTGGTATGAAAATCTCTCAGGCTTACGTCAACAGTCTATCGTGTG
AAATTCCTGGCTGTCTTTGGAGTCTCCATAGGCCCTCCCTTTTCTCGCCATAGCCTATTGGATTGCTCCGT
GCAGCAAGCTAGGACGAACCCTGAGGAGCCCTTTCATGAAGTTTGTAGCTCATGCAGTTTCTTTTACAAT
CTTCTTTGGATTATTAGTTGTGAATGCATCTGACCGATTTGAAGTGTTAAAACCTGCCAAACGAAACC
TTCACAGACTACCCAAAACAAATCTTCAGAGTGA AAAACACACAGTTCTCCTGGACAGAAATGCTCATT
TGAAGTGGGTCTTAGGAATGATTTGGTCCGAATGCAAGGAAATCTGGGAGGAGGGCCACGGGAGTACGT
GCTGCACTTGTGGAACCTGCTAGATTTCCGGATGCTGTCCATCTTCGTGGCCTCCTTCACAGCACGCTTC
ATGGCCTTCTGAAGGCCACGGAGGCACAGCTGTACGTGGACCAGCACGTGCAGGACGACACGCTGCACA
ATGTCTCGCTCCGCCGGAAGTGGCATACTTACCTACGCCAGGGACAAGTGGTGGCCTTCAGACCCTCA
GATCATATCGGAAGGGCTCTACGCGATAGCCGTCGTGCTGAGCTTCTCTCGCATTGCATACATTCTGCCA
GCCAACGAGAGTTTTGGGCCCTGCAGATCTCGCTAGGGAGAAGTGTGAAAGATATCTTCAAGTTCATGG
TCATTTTCATCATGGTATTTGTGGCCTTATGATTGGGATGTTCAACCTGTACTTACTACCGAGGTGC
CAAATACAACCCAGCGTTTACAACGGTTGAAGAAAGTTTTAAAACCTTTGTTTTGGTCCATATTGGCTTA
TCTGAAGTAATCTCAGTGGTGTGAAATACGACCACAAATTCATCGAGAACATTGGCTACGTTCTCTACG
CGGTTTATAACGTCAACATGGTGGTAGTGTGGCTCAACATGCTAATAGCCATGATAAAACACTCCTATCA
GGAAATTGAGGAGGATGCAGATGTGGAATGGAAGTTCCGCCGAGCAAACTCTGGCTGTCTTACTTTGAT
GAAGGAAGAACTACCTGCTCCTTTTAACTAGTGCCAAAGTCTAAATCATTTTATTATCTCATAATGA
GAATCAAGATGTGCCTCATAAACTCTGCAAACTAAGGCCAAAAGCTGTGAAAATGACCTTGAAATGGG
CATGCTGAATCCAAATCAAGAAGACTCGCTACCAGGCTGGCATGAGGAATTCTGAAAATCTGACAGCA
AATAACACTTTGAGCAAGCCCACCAGATACCAGAAAATCATGAAACGGCTCATAAAAAGATACGTCCTGA
AAGCCCAGGTGGACAGAGAAAAATGACGAAGTCAATGAAGGCGAGCTGAAGGAAATCAAGCAAGATATCTC
CAGCCTGCGCTATGAGCTTCTTGAGGAAAAATCTCAAGCTACTGGTGAAGTGGCAGACCTGATTCACAA
CTCAGCGAGAAGTTTGGAAAGAACTTAAACAAAGACCACCTGAGGGTGAACAAGGGCAAAGACATTTAG
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020389 unedited  
 AATTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCACGGTTCTGCCTCGG  
 AAGGCGAGTTTTTACCACTGCAACACAAAAACAGCGGAGCGCGCTTTCACATCGTTGCA  
 ACTTAACTCACTTGACCAGCTCTATACTTCAGCACCACGGAGAGCGGTACATCCTTGGCT  
 ACCACCCATGGGGAGCCAGCTTCTGGCGACTCAACACCGGATTCGGTTCATCTAGAGGAG  
 GAACAAGCCTGCGTATTACACCTCAATGTTGAGGAACAGCACCTCAAAAACATGCAGC  
 GCCGGCACACAACGCTGAGGGAGAAGGGCCGTCGCCAGGCCATCCGGGGTCCCGCTACA  
 TGTTCAACGAGAAGGGCACAGTCTGACGCCCGAGGAGGAGCGCTTCTGGACTCGGCTG  
 AGTATGGCAACATCCCGGTGGTCCGGAAAATGCTGGAGGAGTCCAAGACCCTTAACTTCA  
 ACTGTGTGGACTACATGGGGCAGAACGCTCTGCAGCTGGCCGTGGGCAACGAGCACCTAG  
 AGGTCACGGAGCTGCTGCTGAAGAAGGAGAACCTGGCACGGGTGGGGACGCGCTGCTGC  
 TGGCCATCAGCAAGGGCTATGTGCGCATCGTGGAGGCCATCCTCAACCACCCGGCCTTCG  
 CGCAGGGCCAGCGCTGACGCTCAGCCCGCTGGAACAGGAGCTGCGCGACGACTTCT  
 ATGCCTACGACGAGGACGGCACGCGCTTCTCCACGACATCACGCCTATCATCTGGCGG  
 CGCACTGCCAGNAGTATGAAGATCGTGACATCCTGCTGCTCAAGGGCGCCCGCATCGAG  
 CGCCCCACGN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020389 unedited  
 TGTACGCGCCGCTTCTATGATCGGTTTTTTTTTTTTTTTTTTTATTATGAGGTAATTTTA  
 TTTCTTTCCATTTTAGTAAAAATAGTAAATACAAGATAATCTTAATAAGGTAAAAATA  
 CATCATTTGGATTTTGTGTTTTCTAAACAGTGTACCTACAGTACAGTTTTCAATTTAG  
 GATTTTTAACTTTTTTTTTATATAACAATAGAACTATTTGCTATTAGGCTGTGTTT  
 TCATCTGGCACTTAAGAATAGATCACAGGTCACCTCCTGGTTCTGTTGGATGTGTTGGG  
 GGTGGCAGGGAGGAGTGAAGGAGTTTGTGGTTGAGGTGCCCCCCCNCNTCCCTT  
 CNCCCCCTTTTCTCCCTCTCCCTTTTCTCTTTTCTCCTTTTTTCTCCTTCTCCCTT  
 CTTTCTCTCTCTTTCTTTTCTTTTCTCCTCTTTCCCTTCTTCCCTCTCTCCCTC  
 TCCCCCTTCTCTCTCTTTTCCCTCCTCTCTTCTCTCTCCTCCTCCTCCTCCTCCT  
 CTCTTCTTTTCTCCTCCTTCTCCTCCTTCTCCTCCTTCTCCTTCTCCTCCTCCTCCT  
 CTCCTCTCTTCTTTTCTTTTCCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT  
 CCTTCTTCTTCTCCTCCTTCTTTTCCCTTTTCTCCTTCTCCTTCTCCTCCTCCTCCT  
 TTCCCTCCTCCTTTCTTTTTTCTCCTTTTCTCCTCCTCCTCCTCCTCCTCCTTCTCCT  
 TCTCCTCCTCCTTCTCCTTCTCCTTTTATTTCCCTCCTCCTCCTCCTCCTCCTCCTCCT  
 CCCCCCTTCCCCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT  
 TTTCTCCTCCACTCCACCCCACTCTCCTCCTCCTATTTCCCCATTCCCCCACTCCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020389

**Insert Size:**

3510 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).

**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_020389.1</a> , <a href="#">NP_065122.1</a>
<b>RefSeq Size:</b>	2589 bp
<b>RefSeq ORF:</b>	2589 bp
<b>Locus ID:</b>	57113
<b>UniProt ID:</b>	<a href="#">Q9HCX4</a>
<b>Cytogenetics:</b>	5q31.1
<b>Domains:</b>	ANK, ion_trans
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
<b>Gene Summary:</b>	<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. Activated by diacylglycerol (DAG) (By similarity). May also be activated by intracellular calcium store depletion. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>