

Product datasheet for SC121934

TRPC1 (NM_003304) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRPC1 (NM_003304) Human Untagged Clone
Tag: Tag Free
Symbol: TRPC1
Synonyms: HTRP-1; TRP1
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003304 edited
GGGGCCGGTGGGGCCCCGCCCGTCTCCTGGCCTGCCCCCTTCATGGGCCGCGATGAT
GGCGGCCCTGTACCCGAGCAGGACCTCTCGGGCGCCTCCTCCTCCCTGCCTCCTC
TCCATCCTCTTCCCTCGCGAACGAGGTGATGGCGCTGAAGGATGTGCGGGAGGTGAAGGA
GGAGAATACGCTGAATGAGAAGCTTTTCTGCTGGCGTGCACAAAGGGTACTATTATAT
GGTAAAAAGATTTTGGAGGAAAACAGTTCAGGTGACTTGAACATAAAATTGCGTAGATGT
GCTTGGGAGAAATGCTGTACCATAACTATTGAAAACGAAAACCTGGATATACTGCAGCT
TCTTTTGGACTACGGTTGTCAGAACTAATGGAACGAATTCAGAATCCTGAGTATTCAAC
AACTATGGATGTTGCACCTGTCATTTTAGCTGCTCATCGTAACAACATGAAATTCCTTAC
AATGCTCTTAAAAACAGGATGTATCTCTACCCAAGCCCCATGCAGTTGGCTGTGAATGCAC
ATTGTGTTCTGCAAAAAACAAAAGGATAGCCTCCGGCATTCCAGTTTTCGTCTTGATAT
ATATCGATGTTTGGCCAGTCCAGCTCTAATAATGTTAACAGAGGAGGATCCAATTCAG
AGCATTGAACTTAGTGCTGATTTAAAAGAACTAAGTCTTGTGGAGGTGGAATTCAGGAA
TGATTATGAGGAACTAGCCCCGCAATGTAATGTTTGCTAAGGATTTACTTGCAACAAGC
CCGGAATTCCTGTAATGGAAGTTATTCTAAACCATACGTCTAGTGACGAGCCTCTTGA
CAAACGGGGATTATTAGAAGAAAGAAATGAATTTAAGTCGTCTAAAACCTGCTATCAAATA
TAACCAGAAAGAGTTTGTCTCCAGTCTAACTGCCAGCAGTTCCTGAACACTGTTTGGTT
TGGACAGATGTCGGGTTACCGACGCAAGCCACCTGTAAGAAGATAATGACTGTTTTGAC
AGTAGGCATCTTTTGGCCAGTTTTGTCACTTTGTTATTTGATAGCTCCCAAATTCAGTT
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GGTGGCAGAAGGGCTTTTTGCATTTGCAAATGTTCTAAGTTATCTTCGTCTTTTTTTAT
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TTTTGGAAAATTTCTTGGGATGTTTCTTCTTGTGTTTTGTTTTCTTTCACAATTGGACTGAC
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TGAACAGCAAAGCAATGATACCTTCCATTGTTTCATTGGCACCTGCTTTGCTTTGTTCTG
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AGACAAAGAATGGAAGTTTGTCTGAGCAAATTTATGGCTTAGCTACTTTGATGACAAATG
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TGAGTTGAGTTGCTTCTGAGGTACATTTTGAATGACAGCATATTGTAAGAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003304 unedited
 CAGATTTTGGTAATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGGCCGGTGG
 GGGCCCCGCCCGTCTCCTGGCCTGCCCCCTTCAGGGCCGCGATGATGGCGGCCCTGTA
 CCCGAGCACGGACCTCTCGGGCGCCTCCTCCTCCCTGCCTTCTCCTCATCTCTTC
 CTCGCCGAACGAGGTGATGGCGCTGAAGGATGTGCGGGAGGTGAAGGAGGAGAATACGCT
 GAATGAGAAGCTTTTCTGTGGCGTGCACAAGGGTGACTATTATATGGTTAAAAAGAT
 TTTGGAGGAAAAACAGTTCAGGTGACTTGAACATAAATTGCGTAGATGTGCTTGGGAGAAA
 TGCTGTTACCATAACTATTGAAAACGAAAACCTGGATATACTGCAGCTTCTTTTGGACTA
 CGTGTGTCAGAACTAATGGAACGAATTAGAATCCTGAGTATTCAACAATATGGATGT
 TGCACCTGTCAATTTAGCTGCTCATCGTAACTATGAAATTCTTACAATGCTCTTAA
 ACAGGATGTATCTTCCCAAGCCCATGCAGTTGGGCTGGGAATGCACTTTGTGTTCTG
 CAAAAACAAAAGGGATAGCCTCCCGCATTTCCGGTTCGTCTTGGTATATATCCGATGT
 TTGGCCAGGCCACTTTAAAAAGTTAACAGAGAGGGATCCCATTCTGGGGCATTGGA
 ACTTAGGGCTGATTTAAACACTAAATCTGGGGAGGTGGAATCCGGATGGTTTTATGG
 AACTGGCCCGCAAGTAAAAGGTGGGTTAAGGATTTTATTGGCACAGCCCGAATTTTC
 CGGGATTGGAATTATATTAACCCATACTTTTGAACAGGCCTTTTGAATACGGGGGT
 TTTATAAAAGAAGAAGGTTTTCAATGCCTTCAAACCTGTTTTAATAAAACCCAAAGGGTT
 G

3' Read Nucleotide Sequence: >OriGene 3' read for NM_003304 unedited
 CGACCCTTGGGCATGGCAACTTGCCAGGNCCAGGAAAGCACTGGGGAGGGTCCACAGGATG
 CCACCCGGGATCTGTTTCAAGCACTTGACCGCGGCCCAATCAAATCGAGTTTTTTTTTTT
 TTTTTTTTTTTTATAATCTAATGTCAAATTTTATCCCTTTTTTTTCTTACAATATG
 CTGTCTTTCAAAATGTCCCTCAAAGCACTCACTCTTGATACAGTAAGCACTCTATA
 AATGTTTTAATAATTAGGCGTCTTTAAAAAGACTAAAAATCCATATGTAACCTCCCAAT
 TGGGAAGTGCATAATCCCTCGTACACAAAATATAAATTCAACAATAAACATTTTTATA
 AAATTTGCCCAAAGAGGGAACACTTAAATTTGGAAATAAAAAATAAAAAATGCCAAC
 GCAAGCTGAAACAAACAATTGTAACCTATTTAGACCATGATCCACTGGATCGGTGGTGTCT
 TACAGACCAAGGGTTACCTGCTCCCTGTGGCGTAAGACCATCTGACATTCGGTTAAAAAG
 AGAATTATGCACCTAATATCCTCTTAACTGAAAACGCTGCGAGAATATATAATACCCTAT
 GAAAACCTTTTAACTACATCCCTTTATGTGAACACACCAAAAAATTTAAACACATTTTTA
 TTCTCTAATTAAAAAAACCAATGCTTTTCATCTTAAGCCGCGATAATGATCCACAATA
 ACCATGAAGTCACTTTTATAGAAGCTGTGTTAAATTAAGGAAATACCTCGGAGATAAG
 CTCAAGAACCTTAGTCCCAATATAAAACAATCATTGCATGAAAGAACTTCTATGTTT
 TAAAAACAAAACAGGTTGGGACTACCAGTGAAAAACAGCGCTCTCTCTAATCTAAA
 CTATAACATCCCCCCTAGAAAA

Restriction Sites: NotI-NotI
ACCN: NM_003304
Insert Size: 4100 bp

OTI Disclaimer: 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.

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](#)

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003304.3.

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_003304.3](#), [NP_003295.1](#)

RefSeq Size: 4085 bp

RefSeq ORF: 2280 bp

Locus ID: 7220

UniProt ID: [P48995](#)

Cytogenetics: 3q23

Domains: ANK, ion_trans

Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Protein Pathways: Calcium signaling pathway, Huntington's disease, Parkinson's disease

Gene Summary:

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.