

Product datasheet for **SC310023**

TRPC5 (NM_012471) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRPC5 (NM_012471) Human Untagged Clone
Tag: Tag Free
Symbol: TRPC5
Synonyms: PPP1R159; TRP5
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_012471 edited
GAGGAGTCCGGCAAGGCCCGCCGACCACGCATCCTGGCCGGTGGACATCCAGACGACACAG
ATTTTATCCGAAAAAACCACTTGGCTCAGGATTTCTGCATTGCTATGAACCATGGCCCAA
CTGTACTIONACAAAAAGGTCAACTACTCACCGTACAGAGACCGCATCCCCCTGCAAATTGTG
AGGGCTGAGACAGAGCTCTCTGCAGAGGAGAAGGCCTTCCTCAATGCTGTGGAGAAGGGG
GACTATGCCACTGTGAAGCAGGCCCTTCAGGAGGCTGAGATCTACTATAATGTTAACATC
AACTGCATGGACCCCTTGGGCCGGAGTGCCTGCTCATTGCCATTGAGAACGAGAACCTG
GAGATCATGGAGCTACTGCTGAACCACAGCGTGTATGTGGGTGATGCATTGCTCTATGCC
ATACGCAAGGAAGTGGTGGGCGCTGTGGAGCTTCTGCTCAGCTACAGGCCGCCAGCGGA
GAGAAGCAGGTCCCACTCTGATGATGGACACGCAGTTCTCTGAATTCACACCGGACATC
ACTCCCATCATGTGGCTGCCACACCAACAACTACGAAATCATCAAATTGCTTGTCCAA
AAACGGGTCACTATCCCACGGCCCCACCAGATCCGCTGCAACTGTGTGGAGTGTGTGCT
AGTTTCAGAGGTAGACAGCCTGCGCCACTCTCGCTCCCGACTGAACATCTATAAGGCTCTG
GCAAGCCCTCACTCATTGCCTTATCAAGTGAGGACCCCATCCTAACTGCCTTCCGCTCTG
GGCTGGGAGCTCAAGGAGCTCAGCAAGGTGGAGAATGAGTTCAAGGCCGAGTATGAGGAG
CTCTCTCAGCAGTGCAAGCTCTTTGCCAAAGACCTGCTGGACCAAGCTCGGAGCTCCAGG
GAACTGGAGATCATCCTCAACCATCGAGATGACCACAGTGAAGAGCTTGACCCTCAGAAG
TACCATGACCTGGCCAAGTTGAAGGTGGCAATCAAATACCACCAGAAAGAGTTTGTGCT
CAGCCCAACTGCCAACAGTTGCTTGCCACCCTGTGGTATGATGGCTTCCCTGGATGGCGG
CGGAAACACTGGGTAGTCAAGCTTCTAACCTGCATGACCATTGGGTTCCCTGTTTCCCATG
CTGTCTATAGCCTACCTGATCTCACCCAGGAGCAACCTTGGGCTGTTTCATCAAGAAACCC
TTTATCAAGTTTATCTGCCACACAGCATCCTATTTGACCTTCTCTTTATGCTTCTCCTG
GCTTCTCAGCACATTGTCAGGACAGACCTTCATGTACAGGGCCCTCCCCAACTGTCGTG
GAATGGATGATATTGCCTTGGGTTCTAGGTTTCATTTGGGGTGAATTAAGGAAATGTGG
GATGGTGGATTTACTGAATACATCCATGACTGGTGAACCTGATGGATTTTGAATGAAC
TCCCTCTACCTGGCAACTATTTCCCTGAAGATTGTGGCCTATGTCAAGTATAATGGTTCT
CGTCCAAGGGAGGAATGGGAAATGTGGCACCCGACTCTGATTGCGGAAGCACTCTTCGCA



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ATATCCAACATTTTAAGTTCGTTGCGTCTCATATCCCTGTTACACAGCCAACTCCCCTTA
 GGACCTCTGCAGATCTCTTTGGGACGCATGCTGCTTGATATCCTCAAATTCCTCTTTATC
 TACTGCCTGGTACTACTAGCTTTTGCCAATGGACTGAACCAGCTTTACTTCTATTATGAA
 ACCAGAGCTATCGATGAGCCTAACAACTGCAAGGGGATCCGATGTGAGAAAACAGAACAAT
 GCCTTCTCCACGCTCTTTGAGACTCTTCAGTCACTCTTCTGGTCTGTATTTGGCCTTTTA
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 ACGAAGCTCTGGATGAGTTACTTTGATGAAGGTGGCACCTTGCCACCTCCTTTCAACATC
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 GTAGAATTAGGTGAAGTCCAGGGCGCTGCTCAGAGCAGTGAATGCCCTTAGCCTGTTC
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 GAGGATGATTTTGAACCTTGGGGAGAGGCTTGTGACTTGCTCATGCACAAATGGGGTGAT
 GGACAGGAAGAACAAGTTACAACCTCGCCTTAAGTCAAGCCCTAATCATCTGTTCTGAA
 CTCAACAGAAATCTGTAATTTCTTCTGCTCTCAGAGGTGACACAGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012471 unedited
 NAGTCGTAATTGTATACGACTCACTATAGGCCGGCCGNAATTCGCACGAGGGAGGAGTC
 CGGCAAGGCGCCGACACGCATCCTGGCCGGTGGACATCCAGACGACACAGATTTTATC
 CGAAAAAACCACTTGGCTCAGGATTTCTGCATTGCTATGAACCATGGCCCACTGTACTA
 CAAAAAGGTCACTACTACCGTACAGAGACCGCATCCCCCTGCAAATTTGAGGGCTGA
 GACAGAGCTCTCTGCAGAGGAGAAGGCCTTCTCAATGCTGTGGAGAAGGGGGACTATGC
 CACTGTGAAGCAGGCCCTCAGGAGGCTGAGATCTACTATAATGTTAACATCAACTGCAT
 GGACCCCTTGGGCCGGAGTGCCCTGCTCATTGCCATTGAGAACGAGAACCTGGAGATCAT
 GGAGCTACTGCTGAACCACAGCGTGTATGTGGGTGATGCATTGCTCTATGCCATACGCAA
 GGAAGTGGTGGGCGCTGTGGAGTTCTGCTCAGCTACAGGCGGCCAGCGGAGAGAAGCA
 GGTCCCCACTCTGATGATGGACACGCAGTTCTCTGAATTCACACCGGACATCACTCCCAT
 CATGCTGGCTGCCACACCAACAACCTACGAAATCATCAAATTGCTTGCCAAAAACGGGT
 CACTATCCCACGGCCCCACCAGATCCGCTGNCAGTGTGTGGAGTGTGTCTAGTTTCAGA
 GGTAGACAGCCTGCGCCACTCTCGCTTCCGACTGGACATCTATTAGGCTCTGGNCAGCCC
 CTCCTACTTGCCTTATCAAGTGAGGACCCCATCCTAACTGCCTTNCGTCTGGGCTGGGA
 GCTCAAGGAGCTCAGCAAGGTGGAGAATGAGTTCAAGGCCGAGTATGAGGAGCTCTCTCA
 G

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_012471 unedited CCATGGNGATGGCACTTCCAGGTCCAGNANAGCACTGGGGCAGGGTCACAGGGATGCCAC CCGGGATCTGTTCAAGAAACAGCTATGACCGCGGCCGCAATCTAGATGCATGCTCGAGCG GCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGAGATCTAGATCTGTGTACCTC TGAGAGCAAGGAAATTACAGATTTCTGTTGAGTTCAGAACAGATGATTAGGGCTTGACT TAGAGGCGAGTTGTAACCTGTTCTTCCCTGTCCATCACCCATTTGTGCATGAGCAAGTCA CAAGCTCTCCCAAGTTCAAATACATCCTCTGAGGAGTCTAAAAGTTTAGAATTTGAG GAGCAGATGCTGGATGCACAGTGAAGAGAGCTGGAACAGGCTAGAGGGCATTCACTGCTC TGAGCAGCGCCCTGGACTTCACCTAATTCTACCTCACTGAGGTTAATTTCACTTTGAGAA CAGGCCTCTGCTTTCCCTTTCTCCATCTGAGAATATCTGATGTCCTGCCACATACAGTGC TGCTGAACAATCCATCAGAAATGTGTACATTGGCTCTGAACTGGGTTCCAGACATATGA CCATTAATTTGGAGAATAGGAGACCCAGTTTCTTGAGAGAAGGACCCATGAAGGAGCGT TTGCTTGATGACTCAGCTTTTGACTTTCCCTTGGGCACCACTGGACCTTGGCATGTTCTG ATGAGAGGTGGCCCCATGGCAGTCTTTTCTTGCAGCCTAAATTAAGAGACACTTTG GATTTGGCCCCGAGCCCCACCACTGCCATCATTATTATCGTCTCTCTGAGACAGTTCAGTG CTGCTAGTGAAAGCNTCTTGGGATGTTTCTATTTCCCCAGGAGTCAAGCACNTCATAACC GAAAGCT
Restriction Sites:	Please inquire
ACCN:	NM_012471
Insert Size:	3100 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:	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).
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_012471.1 , NP_036603.1
RefSeq Size:	5839 bp
RefSeq ORF:	2922 bp
Locus ID:	7224
UniProt ID:	Q9UL62
Cytogenetics:	Xq23

Domains:	ANK, ion_trans
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Gene Summary:	This gene belongs to the transient receptor family. It encodes one of the seven mammalian TRPC (transient receptor potential channel) proteins. The encoded protein is a multi-pass membrane protein and is thought to form a receptor-activated non-selective calcium permeant cation channel. The protein is active alone or as a heteromultimeric assembly with TRPC1, TRPC3, and TRPC4. It also interacts with multiple proteins including calmodulin, CABP1, enkurin, Na(+)-H+ exchange regulatory factor (NHERF), interferon-induced GTP-binding protein (MX1), ring finger protein 24 (RNF24), and SEC14 domain and spectrin repeat-containing protein 1 (SESTD1). [provided by RefSeq, May 2010]