

## Product datasheet for **RC226263**

### TRPC3 (NM\_001130698) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC3 (NM_001130698) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRPC3
Synonyms:	SCA41; TRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC226263 representing NM\_001130698  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCACCAAGGTCAGGAAGTGCAAAGAACAAGCAAGGGTGACCTTCCCGCGCCGGAGGAGGAGGAAG  
 ACGAGGGCGAGGACGAGGGCGCGGAGCCGACGCGCCGCCCGGGTTGGAGGGCGTCAACGGGGGCT  
 GGAGCCGCGCTCGGCGCCCTCGCAGCGGGAGCCGACGGCTACTGCCCGCCGCCCTTCTCCACGGGCCG  
 GACCTGTCCATGGAGGAAGCCATCCCTGAGACGCATGACAGTGATGCGGGAGAAGGGCCGGCCAGG  
 CTGTCAAGGGCCCGCCTTCAATGTTCAATGACCGCGCACAGCCTCACCGCCGAGGAGGAGCGCTTCT  
 CGACGCCCGGAGTACGGCAACATCCCAGTGGTGCGAAGATGCTGGAGGAGTCCAAGACGCTGAACGTC  
 AACTGCGTGGACTACATGGGCCAGAACGCGCTGCAGCTGGCTGTGGGCAACGAGCACCTGGAGGTGACCG  
 AGCTGCTGCTCAAGAAGGAGAACCTGGCGCGCATTGGCGACGCCCTGCTGCTGCCATCAGCAAGGGCTA  
 CGTGCGCATCGTAGAGGCCATCCTCAACCACCCTGGCTTCCGCGCCAGCAAGCGTCTCAGCTGAGCCCC  
 TGTGAGCAGGAGCTGCAGGACGACGACTTCTACGCTTACGACGAGGACGGCACGCGCTTCTCGCCGGACA  
 TCACCCCATCATCTGGCGGCGCACTGCCAGAAATACGAAGTGGTGCACATGCTGCTGATGAAGGGTGC  
 CAGGATCGAGCGGCCGACGACTATTTCTGCAAGTGCGGGACTGCATGGAGAAGCAGAGGCACGACTCC  
 TTCAGCCACTCACGCTCGAGGATCAATGCCTACAAGGGGCTGGCCAGCCCGGTTACCTCTCATTGTCCA  
 GCGAGGACCCGGTGTACGCGCCTAGAGCTCAGCAACGAGCTGGCAAGCTGGCCAACATAGAGAAGGA  
 GTTCAAGAATGACTATCGGAAGCTCTCCATGCAATGCAAAGACTTTGTAGTGGGTGTGCTGGATCTCTGC  
 CGAGACTCAGAAGAGGTAGAAGCCATTGAAATGGAGATCTGGAATCAGCAGAGCCTCTGGAGGTACACA  
 GGCACAAAGCTTCAATTAAGTGTGTCAAACTTCCATTAAAGTGAAGTCAAAAAGTTTGTGGTTCATCC  
 CAACTGCCAGCAGCAGCTTTGACGATCTGGTATGAGAACCCTCTCAGGCCTAAGGGAGCAGACCATAGCT  
 ATCAAGTGTCTCGTTGTGCTGGTGGTGGCCCTGGCCCTCCATTCTGGCCATTGGCTACTGGATCGCAC  
 CTTGCAGCAGGCTGGGAAAATTCTGCGAAGCCCTTTTATGAAGTTTGTAGCACATGCAGCTTCTTTCAT  
 CATCTTCTGGTCTGCTTGTGTTCAATGCCTCAGACAGGTTCAAGGCATCACCACGCTGCCCAATATC  
 ACAGTTACTGACTATCCCAAACAGATCTCAGGGTGAAAACCACCCAGTTTACATGGACTGAAATGCTAA  
 TTATGGTCTGGTCTTGGAAATGATGTGGTCTGAATGTAAGAGCTCTGGCTGGAAGGACCTAGGGAATA  
 CATTTTGCAGTTGGAATGTGCTTGTGCTTTGGGATGCTCCATCTTATTGCTGCTTTCACAGCCAGA  
 TTCTAGCTTTCTTTCAGGCAACGAAGGCACAACAGTATGTGGACAGTTACGTCGAAGAGAGTGACCTCA  
 GTGAAGTGACACTCCACCAAGAGATACAGTATTTCACTTATGCTAGAGATAAATGGCTCCCTTCTGACCC  
 TCAGATTATATCTGAAGGCCTTTATGCCATAGCTGTTGTGCTCAGCTTCTCTCGGATTGCGTACATCCTC  
 CCTGCAAATGAGAGCTTTGGCCCTGCAGATCTCTTGGAAAGGACTGTAAGGACATATTCAAGTTCA  
 TGGTCTCTTTTATATGGTGTGTTTTGCTTTATGATTGGCATGTTCACTTTTATTCTTACTACCTTGG  
 GGCTAAAGTTAATGCTGCTTTTACCAGTGTAGAAGAAAGTTTCAAGACTTTATTTTGGTCAATATTTGGG  
 TTGTCTGAAGTGACTTCCGTTGTGCTCAAATATGATCACAATTCATAGAAAATATTGGATACGTTCTTT  
 ATGGAATATAAATGTAAGTATGGTGGTGGTCTTTACTCAACATGCTAATTGCTATGATTAATAGCTCATA  
 TCAAGAAATTGAGGATGACAGTGTAGAAATGGAAGTTTGGTCTGTTCAAACTTTGGTATCCTATTTT  
 GATGATGGAATAACATTACCTCCACCTTTCAGTCTAGTTCCAGTCCAAAATCATTGTTTATTTTCA  
 TGCGAATTGTTAACTTTCCCAAATGCAGAAGGAGAAGACTTCAGAAGGATATAGAAATGGGAATGGGTAA  
 CTCAAAGTCCAGGTTAAACCTTCTCACTCAGTCTAACTCAAGAGTTTTTGAATCACACAGTTTTAACAGC  
 ATTCTCAATCAGCCAACAGTTATCAGCAGATAATGAAAAGACTTATAAAGCGGTATGTTTTGAAAGCAC  
 AAGTAGACAAAGAAAATGATGAAGTTAATGAAGGTGAATAAAAGAAATCAAGCAAGATATCTCCAGCCT  
 TCGTTATGAAGTTTTGAAAGACAAGAGCCAAGCAACTGAGGAATTAGCCATTCTAATTCATAAAGTGTAG  
 GAGAACTGAATCCAGCATGCTGAGATGTGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATGAAGTTTAA

Protein Sequence: >RC226263 representing NM\_001130698  
 Red=Cloning site Green=Tags(s)

MSTKVRKCKEQARVTFPAPEEEEEDEGEDEGAEPQRRRRGWRGVNGGLEPRAPSQREPHGYCPPPF SHGP  
 DLSMEGSPSLRRMTVMREKGRRQAVRGP AFMFNDRGTS LTAEEERFLDAAEYGNIPVVRKMLEESKTLNV  
 NCVDYMQNALQLAVGNEHLEVT ELLKKENLARIGDALLLAISKGYVRIVEAILNHPGFAASKRLT LSP  
 CEQELQDDDFYAYDEDEGTRFSPDITPIILAHCQKYEYVHMLLMKGARIERPHDYFCKCGDCMEKQRHDS  
 FSHSRSRINAYKGLASPAYLSLSEDPVLTAE LSNELAKLANIEKEFKNDYRKL SMQCKDFVVGVDLC  
 RDSEEVEAILNGDLESAEPLEVHRHKA SL SRVLAIKYEVKKFVAHPNCQQQLLTIWYENLSGLREQTIA  
 IKCLVVLVVALGLPFLAIGYWIAPCSRLGKILRSPFMKFVAHAASF IIFLGLLVFNASDRFEGITTL PNI  
 TVTDYPKQIFRVKTTQFTWTEMLIMVWV LGMWSECKELWLEGPREYILQLWNVLDGMLSIFIAAFTAR  
 FLAFLQATKAQQYVDSYVQESDLSEVTL PPEIQYFTYARDKWLPSPQI ISEGLYAI AVVLSFSRIAYIL  
 PANESFGPLQISLGR TVKDIKFMVLFIMVFFAFMIGMFI LYSYLGAKVNAAFTTVEESFKTLFWSIFG  
 LSEVTSVVLKYDHF IENIGYVLYGIYVNTMVVLLNMLIAMINSSYQEIEDDSVVEWKFARSKLWLSYF  
 DDGKTLPPPFSLVSPKSFVYFIMRIVNFPKRRRRLQKD IEMGMGNSKSRNLNFTQSNRSRVFESHFSNS  
 ILNQPTRYQQIMKRLIKRYV LKAQYDKENDEVNEGELKEIKQDISSLR YELLEDKSQATEELAILHKLS  
 EKLNPSMLRCE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mg4623\\_d01.zip](https://cdn.origene.com/chromatograms/mg4623_d01.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



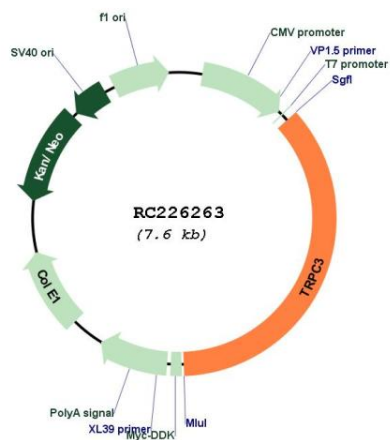
\* The last codon before the Stop codon of the ORF

ACCN: NM\_001130698

ORF Size: 2763 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_001130698.1</a> , <a href="#">NP_001124170.1</a>
<b>RefSeq ORF:</b>	2766 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>MW:</b>	105.4 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC226263