

Product datasheet for **RC219662**

TRPC1 (NM_003304) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC1 (NM_003304) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRPC1
Synonyms:	HTRP-1; TRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219662 representing NM_003304
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGCGGCCCTGTACCCGAGCACGGACCTCTCGGGCGCCTCCTCCTCCTCCCTGCCTTCTCTCCAT
 CCTCTTCCTCGCCGAACGAGGTGATGGCGCTGAAGGATGTGCGGAGGTGAAGGAGGAGAATACGCTGAA
 TGAGAAGCTTTTCTTGCTGGCGTGCGACAAAGGGTACTATTATATGGTTAAAAAGATTTTGGAGGAAAAC
 AGTTCCAGGTGACTTGAACATAAATTGCGTAGATGTGCTTGGGAGAAATGCTGTTACCATAACTATTGAAA
 ACGAAAATTGGATATACTGCAGCTTCTTTGGACTACGGTTGTCAGAACTAATGGAACGAATTCAGAA
 TCCTGAGTATTCAACAATATGGATGTTGCACCTGTCATTTTAGCTGCTCATCGTAACAATATGAAATT
 CTTACAATGCTCTTAAACAGGATGTATCTCTACCCAAGCCCATGCAGTTGGCTGTGAATGCACATTGT
 GTTCTGCAAAAAACAAAAGGATAGCCTCCGGCATTCCAGGTTTCGTCTTGATATATATCGATGTTTGGC
 CAGTCCAGCTCTAATAATGTTAACAGAGGAGGATCCAATTCTGAGAGCATTGAACTTAGTGCTGATTTA
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 TTGCTAAGGATTTACTTGCAACAAGCCCGGAATTCTCGTGAATTGGAAGTTATTCTAAACCATACGCTAG
 TGACGAGCCTCTTGACAAACGGGGATTATTAGAAGAAAGAATGAATTTAAGTCGTCTAAAACCTTGCTATC
 AAATATAACCAGAAAGAGTTTGTCTCCAGTCTAACTGCCAGCAGTTCTTGAACACTGTTTGGTTTGGAC
 AGATGTCGGGTACCGACGCAAGCCACCTGTAAGAAGATAATGACTGTTTTGACAGTAGGCATCTTTTG
 GCCAGTTTTGTCATTTGTTATTTGATAGCTCCAAATCTCAGTTTGGCAGAATCATTACACACCTTTT
 ATGAAATTTATCATTATGGAGCATCATATTTACATTTCTGCTGTTGCTTAATCTATACTCTCTGTCT
 ACAATGAGGATAAGAAAAACACAATGGGGCCAGCCCTTGAAGAATAGACTATCTTCTTATTCTGTGGAT
 TATTGGGATGATTTGGTCAGACATTAAGAACTCTGGTATGAAGGGTTGGAAGACTTTTTAGAAGAATCT
 CGTAATCAACTCAGTTTTGTCATGAATTCTTTTATTTGGCAACCTTTGCCCTCAAAGTGGTTGCTCACA
 ACAAGTTTCATGATTTTGTGATCGGAAGGATTGGGATGCATTCCATCCTACACTGGTGGCAGAAGGGCT
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 CCATTACAGATTTCAATGGGACAGATGTTACAAGATTTTGGAAAATTTCTTGGGATGTTTCTTCTGTTT
 TGTTTTCTTTCACAATTGGACTGACACAATGTATGATAAAGGATATACTTCAAAGGAGCAGAAGGACTG
 TGTAGGCATCTTCTGTGAACAGCAAAGCAATGATACCTCCATTTCGTTTCATTGGCACCTGCTTTCCTTTG
 TTCTGGTATATTTCTCCTTAGCGCATGTGGCAATCTTTGTCACAAGATTTAGCTATGGAGAAGAACTGC
 AGTCTTTTGTGGGAGCTGTCATTGTTGGTACATACAATGTCGTGGTTGTGATTGTGCTTACCAAACCTGCT
 GGTGGCAATGCTTCATAAAAGCTTTCAAGTTGATAGCAAATCATGAAGACAAGAATGGAAGTTTGTCTCGA
 GCAAAATATGGCTTAGCTACTTTGATGACAAATGTACGTTACCTCCACCTTTCAACATCATTCCCTCAC
 CAAAGACTATCTGCTATATGATTAGTAGCCTCAGTAAGTGGATTTGCTCTCATACATCAAAGGCAAGGT
 CAAACGGCAAAACAGTTTAAAGGAATGGAGGAATTTGAAACAGAAGAGAGATGAAAACATCAAAAAAGTG
 ATGTGCTGCCTAGTGCATCGTTACTTGACTTCCATGAGACAGAAGATGCAAAGTACAGATCAGGCAACTG
 TGGAAAATCTAAACGAACTGCCCAAGATCTGTCAAATTCGAAATGAAATAAGGGATTTACTTGGCTT
 TCGGACTTCTAAATATGCTATGTTTTATCCAAGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219662 representing NM_003304
 Red=Cloning site Green=Tags(s)

MMAALYPSTDL SGASSSSLPSSPSSSPNEVMALKD VREVKEENTLNEKLFLLACDKGDYYMVKKILEEN
 SSGDLNINCV DVLGRNAVITIT IENENLDILQLLLDYGCQKLMERI QNPEYSTTMDVAPVILAAHRNNEYI
 LTMLLKQDVSLPKPHAVGCECTLCSAKNKKDSL RHRFRLDIYRCLASPALIML TEEDPILRAFEL SADL
 KELSLVEVEFRNDYEELARQCKMFAKDLLA QARNSRELEVILNHTSSDEPLDKRGLLEERMNL SRLKLA I
 KYNQKEFVVSQSNCCQFLNTVWFGQMSGYRRKPTCKKIMTVLTVGIFWPVLSLCYL IAPKSQFGRIIHTPF
 MKFIIHGASYFTFLLLLNLVSLVYNEDKKNTMGPALERIDYLLILWIIGMIWSDIKRLWYEGLEDFLEES
 RNQLSFVMNSLYLATFALKVVAHNKFHDFADR KDWDAFHPTLVAEGLFAFANVLSYLRLFFMYTTSSILG
 PLQISMGMLQDFGKFLGMFLLVLSFTIGLTQL YDKGYTSKEQKDCVGFCEQQSNDTFHSFIGTCFAL
 FWYIFSLAHVAIFVTRFSYGEELQSFVGA VIVGTYNVVVVIVLTKLLVAMLHKSFLIANHEDKEWK FAR
 AKLWLSYFDDKCTLPPPNIIPSPK TICYMISSLSKWICSHTSKGKVKRQNSLKEWRNLKQKR DENYQVK
 MCCLVHRYLTSMRQKMQSTDQATVENL NELRQDL SKFRNEIRDLLGFRTSKYAMFYPRN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2714_f01.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003304

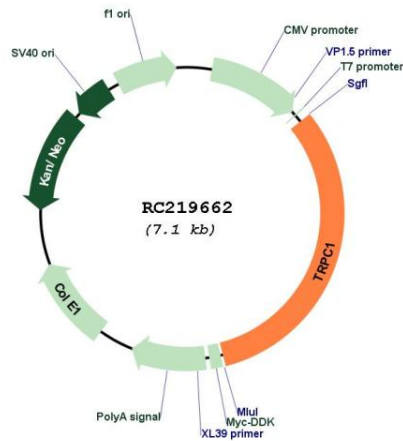
ORF Size: 2277 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_003304.4
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
MW:	87.4 kDa

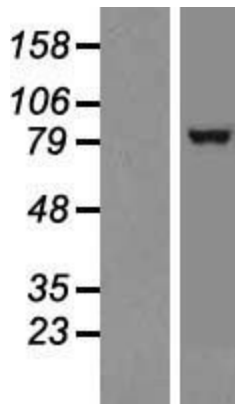
Gene Summary:

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]

Product images:



Circular map for RC219662



Western blot validation of overexpression lysate (Cat# [LY418779]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219662 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).