

Product datasheet for **RG219662**

TRPC1 (NM_003304) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TRPC1 (NM_003304) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TRPC1 |
| Synonyms: | HTRP-1; TRP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG219662 representing NM_003304
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGGCGGCCCTGTACCCGAGCACGGACCTCTCGGGCGCCTCCTCCTCCTCCCTGCCTTCTCTCCAT
 CCTCTTCCTCGCCGAACGAGGTGATGGCGCTGAAGGATGTGCGGAGGTGAAGGAGGAGAATACGCTGAA
 TGAGAAGCTTTTCTTGCTGGCGTGCGACAAAGGGTACTATTATATGGTTAAAAAGATTTTGGAGGAAAA
 AGTTCCAGGTGACTTGAACATAAATTGCGTAGATGTGCTTGGGAGAAATGCTGTTACCATAACTATTGAAA
 ACGAAAATTGGATATACTGCAGCTTCTTTGGACTACGGTTGTCAGAACTAATGGAACGAATTCAGAA
 TCCTGAGTATTCAACAATATGGATGTTGCACCTGTCATTTTAGCTGCTCATCGTAACAATATGAAATT
 CTTACAATGCTCTTAAACAGGATGTATCTCTACCCAAGCCCCATGCAGTTGGCTGTGAATGCACATTGT
 GTTCTGCAAAAAACAAAAGGATAGCCTCCGGCATTCCAGGTTTCGTCTTGATATATATCGATGTTTGGC
 CAGTCCAGCTCTAATAATGTTAACAGAGGAGGATCCAATTCTGAGAGCATTGAACTTAGTGCTGATTTA
 AAAGAACTAAGTCTTGTGGAGGTGGAATTCAGGAATGATTATGAGGAACTAGCCCGCAATGTAAAATGT
 TTGCTAAGGATTTACTTGCAACAAGCCCGAATTCTCGTGAATTGGAAGTTATTCTAAACCATACGCTAG
 TGACGAGCCTCTTGACAAACGGGGATTATTAGAAGAAAGAATGAATTTAAGTCGCTAAAACCTTGCTATC
 AAATATAACCAGAAAGAGTTTGTCTCCAGTCTAACTGCCAGCAGTTCTGAACACTGTTTGGTTTGGAC
 AGATGTCRGGTACCAGCAGCAAGCCACCTGTAAGAAGATAATGACTGTTTTGACAGTAGGCATCTTTTG
 GCCAGTTTTGTCATTTGTTATTTGATAGCTCCAAATCTCAGTTTGGCAGAATCATTACACACCTTTT
 ATGAAATTTATCATTATGGAGCATCATATTTACATTTCTGCTGTTGCTTAATCTATACTCTCTGTCT
 ACAATGAGGATAAGAAAAACACAATGGGGCCAGCCCTTGAAAGAATAGACTATCTTCTTATCTGTGGAT
 TATTGGGATGATTTGGTCAGACATTAAGAACTCTGGTATGAAGGGTTGGAAGACTTTTTAGAAAGTCT
 CGTAATCAACTCAGTTTTGTCATGAATTCTTTTATTGGCAACCTTTGCCCTCAAAGTGGTTGCTCACA
 ACAAGTTTCATGATTTTGTGATCGGAAGGATTGGGATGCATTCCATCCTACACTGGTGGCAGAAGGGCT
 TTTTGCATTTGCAAAATGTTCTAAGTTATCTTCGTCTCTTTTTTATGTATAACAACCAGCTCTATCTGGGT
 CCATTACAGATTTCAATGGGACAGATGTTACAAGATTTGGAAAATTTCTTGGGATGTTTCTTCTGTTT
 TGTTTTCTTTCACAATTGGACTGACACAATGTATGATAAAGGATATACTTCAAAGGAGCAGAAGGACTG
 TGTAGGCATCTTCTGTGAACAGCAAAGCAATGATACCTCCATTTCGTTTCATTGGCACCTGCTTTCCTTG
 TTCTGGTATATTTCTCCTTAGCGCATGTGGCAATCTTTGTCACAAGATTTAGCTATGGAGAAGAACTGC
 AGTCTTTTGTGGGAGCTGTCATTGTTGGTACATACAATGTCGTGGTTGTGATTGTGCTTACCAAACCTGCT
 GGTGGCAATGCTTCATAAAAGCTTTCAGTTGATAGCAAATCATGAAGACAAGAATGGAAGTTTGTCTCGA
 GCAAAATATGGCTTAGCTACTTTGATGACAAATGTACGTTACCTCCACCTTTCAACATCATTCCCTCAC
 CAAAGACTATCTGCTATATGATTAGTAGCCTCAGTAAGTGGATTTGCTCTCATACATCAAAGGCAAGGT
 CAAACGGCAAAACAGTTTAAAGGAATGGAGAAATTTGAAACAGAAGAGAGATGAAAACATCAAAAAAGTG
 ATGTGCTGCCTAGTGCATCGTTACTTGACTTCCATGAGACAGAAGATGCAAAGTACAGATCAGGCAACTG
 TGGAAAATCTAAACGAACTGCCCAAGATCTGTCAAATTCGAAATGAAATAAGGGATTTACTTGGCTT
 CCGACTTCTAAATATGCTATGTTTTATCCAAGAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219662 representing NM_003304
 Red=Cloning site Green=Tags(s)

MMAALYPSTDLGASSSSLPSSPSSSPNEVMALKDQVREVKENTLNEKLFLLACDKGDYIMVKKILEEN
 SSGDLNINCVDLGRNAVITITENENLDILQLLLDYGCQKLMERIQNPEYSTTMDVAPVILAAHRNNEYI
 LTMLLKQDVSLPKPHAVGCECTLCSAKNKKDSLRSRFRLDIYRCLASPALIML TEEDPILRAFELSADL
 KELSLVEVEFRNDYEELARQCKMFAKDLLAQARNSRELEVILNHTSSDEPLDKRGLLEERMNLSRLKLA
 KYNQKEFVSQSNCCQFLNTVWFGQMXGYRRKPTCKKIMTVLTVGIFWPVLSLCYL IAPKSQFGRIIHTPF
 MKFIIHGASYFTFLLLLNLVSLVYNEDKNTMGPALERIDYLLILWIIGMIWSDIKRLWYEGLEDFLEES
 RNQLSFVMNSLYLATFALKVVAHNKFDHFAADKDWDAFHPTLVAEGLFAFANVLSYLRFFMYTTSSILG
 PLQISMGMLQDFGKFLGMFLLVLSFTIGLTQLYDKGYTSKEQKDCVGFCEQQSNDTFHFSIGTCFAL
 FWYIFSLAHVAIFVTRFSYGEELQSFVGAIVGTYNVVVVIVLTKLLVAMLHKSFLIANHEDKEWKFKAR
 AKLWLSYFDDKCTLPPPFIIPSPKTI CYMISSLSKWICSHTSKGKVKRQNSLKEWRNLKQKRDENYQVK
 MCCLVHRYLTSMRQKMQSTDQATVENLNELRQDLSKFRNEIRDLLGFRTSKYAMFYPRN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

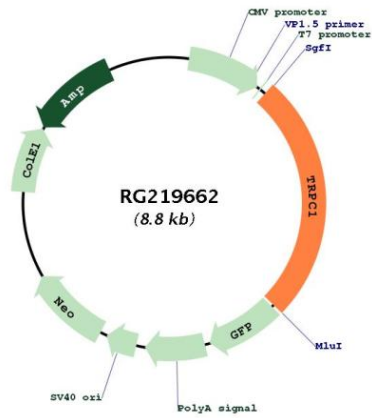


ACCN: NM_003304

ORF Size: 2277 bp

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| 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: | <p>NM_003304.3, NP_003295.1</p> |
| RefSeq Size: | <p>4085 bp</p> |
| RefSeq ORF: | <p>2280 bp</p> |
| Locus ID: | <p>7220</p> |
| UniProt ID: | <p>P48995</p> |
| Cytogenetics: | <p>3q23</p> |
| Domains: | <p>ANK, ion_trans</p> |
| Protein Families: | <p>Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane</p> |
| Protein Pathways: | <p>Calcium signaling pathway, Huntington's disease, Parkinson's disease</p> |
| Gene Summary: | <p>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]</p> |

Product images:



Circular map for RG219662