

Product datasheet for **RG218941**

TRPC4 (NM_016179) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC4 (NM_016179) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRPC4
Synonyms:	HTRP-4; HTRP4; TRP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218941 representing NM_016179 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCATCCCCTCTGGTGGCAGAGGCTTTATTTGCTATTGCAAACATCTTCAGTTCTCTGCGTCTGA
TCTCACTGTTTACTGCAAATTCACCTGGGACCTCTGCAAATATCTCTGGGAAGAATGCTCCTGGACAT
TTTGAAGTTTCTATTCATATACTGCCTTGTGTTGCTAGCATTGCAAATGGCCTAAATCAATTGACTTC
TATTATGAAGAAACGAAAGGGTTAACCTGCAAAGGCATAAGATGTAAAAGCAGAATAATGCATTTTCAA
CGTTATTTGAGACTGCAGTCCCTGTTTTGGTCAATATTTGGGCTCATCAATTTATATGTACCAATGT
CAAAGCACAGCATGAATTTACTGAGTTTGTGGTGCCACCATGTTTGGGACANNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNATCACCAATACCAAGAAGTTATGAGGAACCTGGTGAAGCGATACGTTGCTG
CAATGATTAGAGATGCTAAAACCTGAAGAAGGCCTGACCGAAGAGAAGCTTTAAGGAACCTAAAGCAAGCAT
TTCTAGTTTCCGCTTTGAAGTCTGGGATTACTAAGAGGAAGCAAACCTTTCCACAATACAATCTGCGAAT
GCCTCGAAGGAGTCTTCAAATTCGGCAGACTCAGATGAAAAGAGTGATAGCGAAGGTAATAGCAAGGACA
AGAAAAAGAATTCAGCCTTTTTGATTTAACACCCTGATTCATCCGAGATCAGCAGCAATTCCTCTGA
AAGACATAACATAAGCAATGGCTCTGCCCTGGTGGTTCAGGAGCCGCCAGGGAGAAGCAGAGAAAAGTG
AATTTTGTGACCGATATCAAAAACCTTTGGGTTATTTTATAGACGATCAAAAACAAATGCTGCTGAGCAAA
ATGCAAACCAAATCTTCTCTGTTTCAGAAGAAGTTGCTCGTCAACAGGCTGCAGGACCCTTGAGAGAAA
TATTCAACTGGAATCTCGAGGATTAGCTTCACGGGTGACCTGAGCATTCCCGTCTCAGTGAACAATGT
GTGTTAGTAGACCATAGAGAAAGGAATACGGACACACTGGGGTTACAGGTAGGAAAGAGAGTGTGTCCAT
TCAAGTCAGAGAAGTGGTGGTGGAGGACCGTTCTATAATACCAAAGGAGAAACATGCAAAAAGAAGA
GGACTCTAGTATAGACTATGATCTAACCTCCAGACACAGTCACCCACGAAGATTACGTGACCACAAGA
TTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218941 representing NM_016179
Red=Cloning site Green=Tags(s)

MWHPTLVAEALFAIANIFSSLRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYF
 YYEETKGLTCKGIRCEKQNNAFSTLFETLQSLFWSIFGLINLYVTNVKAQHEFTEFVGATMFGTXXXXXX
 XXXXXXHQYQEVMRNLVKRYVAAMIRDAKTEEGLTEENFKELKQDISSFRFEVLGLLRGSKLSTIQSAN
 ASKESSNSADSDEKSDSEGNSKDKKKNFSLFDLTLIHPRSAAIASERHNI SNGSALVVQEPPEKQKRV
 NFVTDIKNFGLFHRRSKQNAAEQANANQIFSVSEEVARQQAAGPLERNIQLESRGLASRGDLSIPGLSEQC
 VLVDHRRERNTDTLGLQVGKRVCPFKEKVVVEDTVPIIPKEKHAKEDSSIDYDLNLPDVTHTEDYVTTTR
 L

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_016179

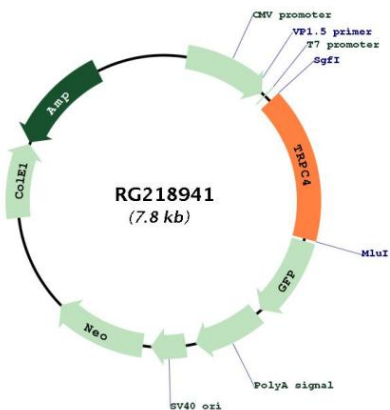
ORF Size: 1263 bp

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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<u>NM_016179.1</u> , <u>NP_057263.1</u>
RefSeq Size:	3440 bp
RefSeq ORF:	2934 bp
Locus ID:	7223
UniProt ID:	<u>Q9UBN4</u>
Cytogenetics:	13q13.3
Domains:	ANK, ion_trans
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Gene Summary:	This gene encodes a member of the canonical subfamily of transient receptor potential cation channels. The encoded protein forms a non-selective calcium-permeable cation channel that is activated by Gq-coupled receptors and tyrosine kinases, and plays a role in multiple processes including endothelial permeability, vasodilation, neurotransmitter release and cell proliferation. Single nucleotide polymorphisms in this gene may be associated with generalized epilepsy with photosensitivity. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG218941