

Product datasheet for RC226703

TRPC4 (NM_003306) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC4 (NM_003306) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRPC4
Synonyms:	HTRP-4; HTRP4; TRP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226703 representing NM_003306 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCTCAGTTCTATTACAAAAGAAATGTTAATGCTCCCTATAGAGACCGCATCCCTCTAAGGATAGTAA
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TGTCAGAAAATCCCTAGAGGAAGCTGAAATTTATTTAAAATCAATATTAATTGCATTGATCCTCTCGGA
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CCACAAAAACCTAGTGGAGAAAAACAGGTGCCTCCTATACTCCTTGATAAGCAGTTCTCTGAATCACT
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GGACAGCCTCCGTCACGCTCCAGACTCAACATCTACAAGGCCTTGGCCAGTCCCTCTCATTGCA
CTGTCAAGCGAAGATCCTTTTCTCACAGCCTTTCAGTTAAGTTGGGAACTTCAGGAACTGAGCAAGTGG
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CGTCTGATCTCACTGTTTACTGCAAATTCTCACCTGGGACCTCTGCAAATATCTCTGGGAAGAATGCTCC
 TGGACATTTTGAAGTTTCTATTCATATACTGCCTTGTTGCTAGCATTGCAAATGGCCTAAATCAATT
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 CATTCAAGTCAGAGAAGGTGGTGGTGGAGGACCGGTTCTATAATACCAAAGGAGAAACATGCAAAAAGA
 AGAGGACTCTAGTATAGACTATGATCTAAACCTCCAGACACAGTCACCCACGAAGATTACGTGACCACA
 AGATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGTTTAA

Protein Sequence:

>RC226703 representing NM_003306
 Red=Cloning site Green=Tags(s)

MAQFYKRNVPYRDRIPRLRIVRAESELSPSEKAYLNAVEKGDYASVKKSLLEEAIYFKININCIDPLG
 RTALLIATENENLELIELLLSFNVYVGDALLHAIRKEVVGAVELLNHHKPSGEKQVPPILLDKQFSEFT
 PDITPIILAAHTNNEYI IKLLVQKGVSVPRPHEVRCNCVECVSSSDVDSLRRHSRSLNIYKALASPLIA
 LSSDPFLTAFLQSWELQELSKVENEFKSEYEELSRQCKQFAKDLLDQTRSSRELEIILNYRDDNSLIEE
 QSGNDLARKLAIKYRQKEFVAQPNCQQLLASRWYDEFPGWRRRHAWVKMVTFCFIIGLLFPVFSVCYLIA
 PKSPLGLFIRKPFIKFICHTASYLTFLFLLLASQHIDRSDLNRQPPPTIVEWMILPWVLFWIWGEIKQ
 MWDGGLQDYIHDWWNLMDVMNSLYLATISLKIIVAFVKYSALNPRESWDMWHPTLVAEALFAIANIFSSL
 RLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYFYYEETKGLTCKGIRCEKQNN
 FSTLFETLQSLFWSIFGLINLYVTNVKAQHEFTEFVGATMFGTYNVISLVVLLNMLIAMMNSYQLIADH
 ADIEWKFARTKLWMSYFEEGGLTPFPNVIPSPKSLWYLKWIWTHLCKKKMRRKPESFGTIGVRTQHRR
 AADNLRHHQYQEVMRNLVKRYVAAMIRDAKTEEGLTEENFKELKQDISSFRFEVLGLLRGSKLSTIQSA
 NASKESSNSADSDEKSDSEGNSKDKKNFSLFDLTTLIHPRSAAIASERHNI SNGSALVVQEPREKQRK
 VNFVTDIKNFGLFHRRSKQNAEQANQIFSVSEEVARQQAAGPLERNIQLESRGLASRGDLSIPGLSEQ
 CVLVDHRENTDTLGLQVGRVCPFKSEKVVVEDTVPIIPKEKHAKEEDSSIDYDLNLPDVTTHEDYVTT
 RL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8007_h10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003306

ORF Size: 2946 bp

OTI Disclaimer: 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:**
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.

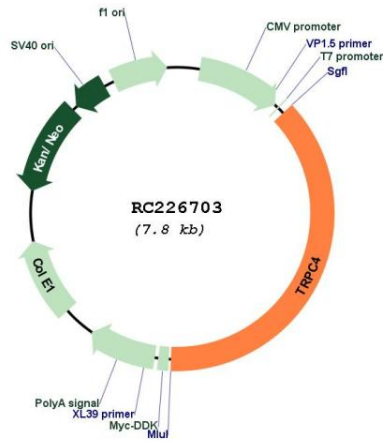
RefSeq: [NM_003306.3](#)

RefSeq ORF: 2949 bp

Locus ID: 7223

UniProt ID: [Q9UBN4](#)
Cytogenetics: 13q13.3
Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
MW: 112.5 kDa
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 RC226703