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Product datasheet for RC226733

TRPC4 (NM_001135958) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC4 (NM_001135958) 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:

>RC226733 representing NM_001135958
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGTTCTATTACAAAAGAAATGTTAATGCTCCCTATAGAGACCGCATCCCTCTAAGGATAGTAA
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CCTGTTTTGGTCAATATTTGGGCTCATCAATTTATATGTGACCAATGTCAAAGCACAGCATGAATTTACT
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GTTACAGGTAGGAAAGAGAGTGTGTCCATTCAAGTCAGAGAAGGTGGTGGTGGAGGACACGGTTCCTATA
ATACCAAAGGAGAAACATGCAAAAGAAGAGGACTCTAGTATAGACTATGATCTAAACCTCCCAGACACAG
TCACCCACGAAGATTACGTGACCACAAGATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226733 representing NM_001135958
Red=Cloning site Green=Tags(s)

MAQFYYKRNVNAPYRDRIPLRIVRAESELSPSEKAYLNAVEKGDYASVKKSLEEAEIYFKININCIDPLG
RTALLIAIENENLELIELLLSFNVYVGDALLHAIRKEVVGAVELLLNHKKPSGEKQFVAQPNCQQLLASR
WYDEFPGWRRRHWAVKMVTCFIIGLLFPVFSVCYLIAPKSPLGLFIRKPFIKFICHTASYLTFLFLLLLA
SQHIDRSDLNRQGPPPTIVEWMILPWVLGFIWGEIKQMWDGGLQDYIHDWWNLMDFVMNSLYLATISLKI
VAFVKYSALNPRESWDMWHPTLVAEALFAIANIFSSLRLISLFTANSHLGPLQISLGRMLLDILKFLFIY
CLVLLAFANGLNQLYFYYEETKGLTCKGIRCEKQNNAFSTLFETLQSLFWSIFGLINLYVTNVKAQHEFT
EFVGATMFGTYNVISLVVLLNMLIAMMNNSYQLIADHADIEWKFARTKLWMSYFEEGGTLPTPFNVIPSP
KSLWYLIKWIWTHLCKKKMRRKPESFGTIGRRAADNLRRHHQYQEVMRNLVKRYVAAMIRDAKTEEGLTE
ENFKELKQDISSFRFEVLGLLRGSKLSTIQSANASKESSNSADSDEKSDSEGNSKDKKKNFSLFDLTTLI
HPRSAAIASERHNISNGSALVVQEPPREKQRKVNFVTDIKNFGLFHRRSKQNAAEQNANQIFSVSEEVAR
QQAAGPLERNIQLESRGLASRGDLSIPGLSEQCVLVDHRERNTDTLGLQVGKRVCPFKSEKVVVEDTVPI
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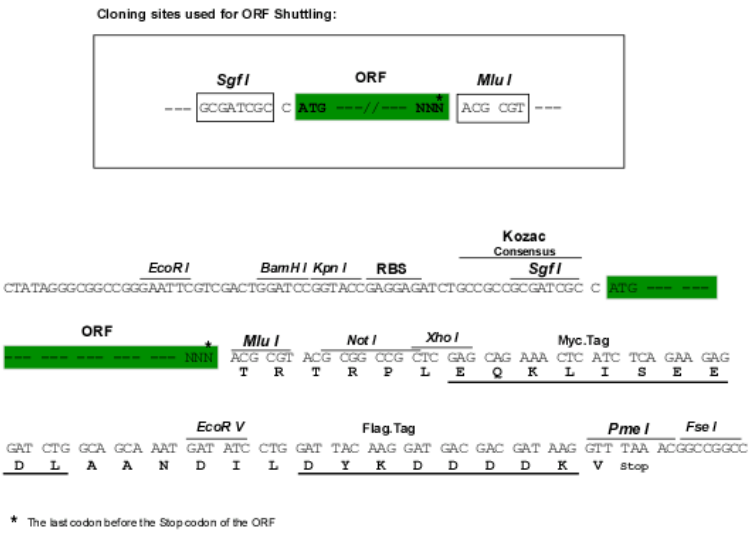
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001135958
ORF Size:	2412 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_001135958.3

RefSeq ORF: 2415 bp

Locus ID: 7223

UniProt ID: Q9UBN4

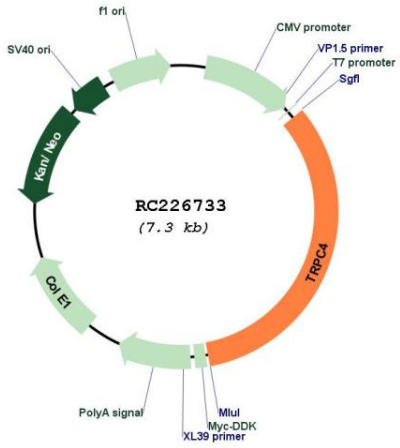
Cytogenetics: 13q13.3

Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

MW: 92 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 RC226733