

Product datasheet for **RC234887**

TRPC1 (NM_001251845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC1 (NM_001251845) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRPC1
Synonyms:	HTRP-1; TRP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC234887 representing NM_001251845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGGCGGCCCTGTACCCGAGCACGGACCTCTCGGGCGCCTCCTCCTCCTCCCTGCCTTCTCTCCAT
 CCTCTTCTCGCCGAACGAGGTGATGGCGCTGAAGGATGTGCGGAGGTGAAGGAGGAGAATACGCTGAA
 TGAGAAGCTTTTCTTGCTGGCGTGCGACAAGGGTGACTATTATATGGTTAAAAAGATTTTGGAGGAAAA
 AGTTCCAGGTGACTTGAACATAAATTGCGTAGATGTGCTTGGGAGAAATGCTGTTACCATAACTATTGAAA
 ACGAAAATTGGATATACTGCAGCTTCTTTGGACTACGGTTGTCAGTCTGCAGATGCACCTTTGGTGGC
 AATCGACTCTGAAGTAGTGGGAGCTGTTGATATACTACTTAATCATCGACAAAACGATCATCAAGACCA
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 GGCAACCTTTGCCCTCAAAGTGGTTGCTCACAACAAGTTTCATGATTTTGTGATCGGAAGGATTGGGAT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234887 representing NM_001251845
 Red=Cloning site Green=Tags(s)

MMAALYPSTDLGASSSSLPSSPSSSPNEVMALKDREVKEENTLNEKLFLLACDKGDYYMVKKILEEN
 SSGDLNINCVDLGRNAVITITENENLDILQLLLDYGCQSADALLVAIDSEVVGAVDILLNHRPKRSSRP
 TIVKLMERIQNPEYSTTMDVAPVILAAHRNNEYILTMLLKQDVSLPKPHAVGCECTLCSAKNKKDSLRRS
 RFRLDIYRCLASPALIML TEEDPILRAFEL SADLKELSLVEVEFRNDYEELARQCKMFAKDLLAQARNR
 ELEVILNHTSSDEPLDKRGLLEERMNLSRLKLAIKYNQKEFVSQSNCCQFLNTVWFGQMSGYRRKPTCKK
 IMTVLTVGIFWPVLSLCYLIAPKSQFGRIIHTPFMKFIIHGASYFTLLLLNLVLSLVYNEDKKNTMPAL
 ERIDYLLILWIIIGMIWSDIKRLWYEGLEDFLEESRNQLSFMNSLYLATFALKVVAHNKFHDFADRKDWD
 AFHPTLVAEGLFAFANVLSYLRLFFMYTTSSILGPLQISMGMQLQDFGKFLGMFLLVLSFTIGLTLQLYD
 KGYSKEQKDCVGFCEQSNDFHSGIGTCFALFWYIFSLAHVAIFVTRFSYGEELQSVGAVIVGTYN
 VVVVIVLTKLLVAMLHKSFLIANHEDKEWKFAKAKLWLSYFDDKCTLPPPFNIIPSPKICYMISSLSK
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 FRNEIRDLLGFRTSKYAMFYPRN

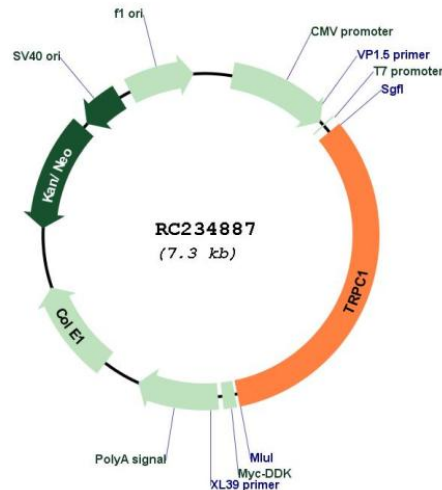
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN:	NM_001251845
ORF Size:	2379 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:	<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_001251845.2
RefSeq Size:	4179 bp
RefSeq ORF:	2382 bp
Locus ID:	7220
UniProt ID:	P48995
Cytogenetics:	3q23

Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Protein Pathways:	Calcium signaling pathway, Huntington's disease, Parkinson's disease
MW:	91.7 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]