

Product datasheet for RC231463

TRPM4 (NM_001195227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPM4 (NM_001195227) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRPM4
Synonyms:	EKVP6; hTRPM4; LTrpC4; PFHB1B; TRPM4B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC231463 representing NM_001195227 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGTGCCGGAGAAGGAGCAGAGCTGGATCCCAAGATCTTCAAGAAGAAGACCTGCACGACGTTCA
TAGTTGACTCCACAGATCCGGGAGGGACCTTGCCAGTGTGGGCGCCCCGGACCGCCACCCCGCAGT
GGCCATGGAGGATGCCTTCGGGGCAGCCGTGGTGACCGTGTGGGACAGCGATGCACACACCAGGAGAAG
CCCACCGATGCCTACGGAGAGCTGGACTTACGGGGGCCGGCCGAAGCACAGCAATTCCTCCGGCTCT
CTGACCGAACGGATCCAGCTGCAGTTTATAGTCTGGTCACACGCACATGGGGCTTCCGTGCCCGAACCT
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GGCATGTTGGTGTGGCTGTACGGGACCATCAGATGGCCAGCACTGGGGGCACCAAGGTGGTGGCCATGGG
TGTGGCCCCCTGGGGTGTGGTCCGGAATAGAGACACCCTCATCAACCCCAAGGGCTCGTTCCTGCGAGG
TACCGGTGGCGCGGTGACCCGGAGGACGGGGTCCAGTTTCCCCTGGACTACAACACTCGGCCTTCTTCC
TGGTGGACGACGGCACACACGGCTGCCTGGGGGGCAGAGAACCCTTCCGCTTGGCCTGGAGTCCATAC
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TGTGCGCGCCGAGGTACCCCTCCGGGGCGCCTGGGACCCTACCCAGGCCAGGGCTTCGGGGAGAGCAT
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 GACCTGCTTCTTTGGGCACTGTTGCTGAACAGGGCACAGATGGCCATGTACTTCTGGGAGATGGTTCCA
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231463 representing NM_001195227
 Red=Cloning site Green=Tags(s)

MVPEKEQSWIPKIFKKTCTTFIVDSTDPGGTLCQCGRPRTAHPAVAMEDAFGAAVVTWVSDAHTTEK
 PTDAYGELDFTGAGRKHSNFRLLSDRTDPAAVYSLVTRTWGFRAPNLVSVLGGSGPVLTWLQDLLRR
 GLVRAAQSTGAWIVTGLHTGIGRHVGVAVRDHQMASTGGTKVVAMGVAPWGVVNRDRLINPKGSFPAR
 YRWRGDPEDGVQFPLDYNYSAFFLVDDGTHGCLGGENRFRLRLESYISQKGTGGGTGIDIPVLLLLIDG
 DEKMLTRIENATQAQLPCLLVAGSGGAADCLAETLEDTLAPGSGGARQGEARDRIRRFPPKGDLEVLQAQ
 VERIMTRKELLTVYSSEDSSEFETIVLKALVKACGSSEASAYLDELRLAVAWNRVDIAQSELFRGDIQW
 RSFHLEASLMDALLNDRPEFVRLLSHGLSLGHFLTPMRLAQLYSAAPSNLIRNLLDQASHSAGTKAPA
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 DLLLWALLLNRAQMAMYFWEMGSNAVSSALGACLLLRVMARLEPDAAEAARRKDLAFKFEFGMGVDLFGEC
 YRSSEVRAARLLLRRCPLWGDATCLQLAMQADARAFFAQDGVQSLLTQKWWGDMASTTPIWALVLAFFCP
 PLIYTRLITFRKSEEEPTREELEFDMSVINGEGPVGLTPGLYHLGRTVLCIDFMVFTVRLHLHIFTVVKQ
 LGPKIVIVSKMMKDVFFFLFVLVAVGVATEGLLRPRDSDFPSILRRVFRPYLQIFGQIPQEDMDV
 ALMEHSNCSSEPGFWAHPGAQAGTCVSQYANWLVVLLLVIFLLVANILLVNLLIAMFSYTFGKVVQNSD
 LYWKAQRYRLIREFHSPALAPPFIVISHLRLLLRQLCRRRSPQPSPPALEHFRVYLSKEAERKLLTWE
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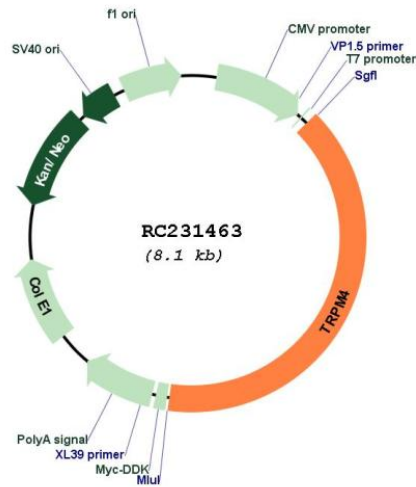
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001195227

ORF Size: 3207 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:	<u>NM_001195227.2</u>
RefSeq ORF:	3210 bp
Locus ID:	54795
UniProt ID:	<u>Q8TD43</u>
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
MW:	119.1 kDa
Gene Summary:	The protein encoded by this gene is a calcium-activated nonselective ion channel that mediates transport of monovalent cations across membranes, thereby depolarizing the membrane. The activity of the encoded protein increases with increasing intracellular calcium concentration, but this channel does not transport calcium. [provided by RefSeq, Mar 2016]