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Product datasheet for RC211184

TRPV3 (NM_145068) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPV3 (NM_145068) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRPV3
Synonyms:	FNEPPK2; OLMS; OLMS1; VRL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC211184 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAGCCCACCCCAAGGAGATGGTGCCTCTCATGGGCAAGAGAGTTGCTGCCCCCAGTGGGAACCCTG
CCGTCCTGCCAGAGAAGAGGCCGGCGGAGATCACCCCCACAAAGAAGAGTGCACACTTCTTCCTGGAGAT
AGAAGGGTTTGAACCCAACCCCACAGTTGCCAAGACCTCTCCTCCTGTCTTCTCCAAGCCCATGGATTCC
AACATCCGGCAGTGCATCTCTGGTAACTGTGATGACATGGACTCCCCCCAGTCTCCTCAAGATGATGTGA
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GCGGCTGAAGAAGCGCATCTTTGCAGCCGTGTCTGAGGGCTGCGTGGAGGAGTTGGTAGAGTTGCTGGTG
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CCTCCGACACGGGGAAGACCTGCCTGATGAAGGCCTTGTTAAACATCAACCCCAACACCAAGGAGATCGT
GCGGATCCTGCTTGCCTTTGCTGAAGAGAACAACATCCTGGGCAGGTTCATCAACGCCGAGTACACAGAG
GAGGCCTATGAAGGGCAGACGGCGCTGAACATCGCCATCGAGCGGCGGCAGGGGGACATCGCAGCCCTGC
TCATCGCCGCCGGCGCCGACGTCAACGCGCACGCCAAGGGGGCCTTCTTCAACCCCAAGTACCAACACGA
AGGCTTCTACTTCGGTGAGACGCCCCTGGCCCTGGCAGCATGCACCAACCAGCCCGAGATTGTGCAGCTG
CTGATGGAGCACGAGCAGACGGACATCACCTCGCGGGACTCACGAGGCAACAACATCCTTCACGCCCTGG
TGACCGTGGCCGAGGACTTCAAGACGCAGAATGACTTTGTGAAGCGCATGTACGACATGATCCTACTGCG
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CCAGGAAGTTCACCGACTGGGCGTACGGACCCGTGTCATCCTCCCTCTACGACCTCACCAACGTGGACAC
CACCACGGACAACTCAGTGCTGGAAATCACTGTCTACAACACCAACATCGACAACCGGCATGAGATGCTG
ACCCTGGAGCCGCTGCACACGCTGCTGCATATGAAGTGGAAGAAGTTTGCCAAGCACATGTTCTTTCTGT
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AGTCCATCCTCTCGGATGCCTGGTTCCACTTTGTCTTTTTTATCCAAGCTGTGCTTGTGATACTGTCTGT
CTTCTTGTACTTGTTTGCCTACAAAGAGTACCTCGCCTGCCTCGTGCTGGCCATGGCCCTGGGCTGGGCG
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GAACTCTTCAAGCTCACCATAGGCCTGGGTGATCTGAACATCCAGCAGAACTCCAAGTATCCCATTCTCT
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GGGCGAGACTGTGGAGAACGTCTCCAAGGAGAGCGAACGCATCTGGCGCCTGCAGAGAGCCAGGACCATC
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CTTCCTTAACGAAGACCCGGGGCCTGTAAGACGAACAGCAGATTTCAACAAAATCCAAGATTCTTCCAGG
AACAACAGCAAAACCACTCTCAATGCATTTGAAGAAGTCGAGGAATTCCCGGAAACCTCGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211184 protein sequence
Red=Cloning site Green=Tags(s)

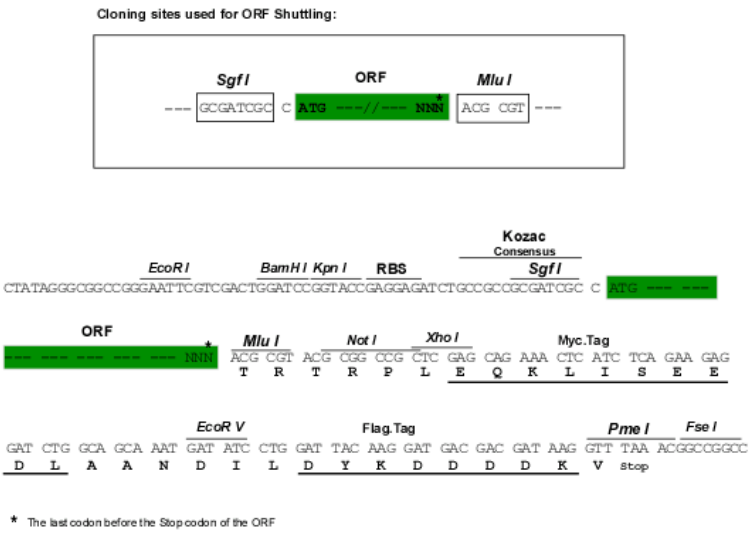
MKAHPKEMVPLMGKRVAAPSGNPAVLPEKRPAEITPTKKSAHFFLEIEGFEPNPTVAKTSPPVFSKPMDS
NIRQCISGNCDDMDSPQSPQDDVTETPSNPNSPSAQLAKEEQRRKKGRLKKRIFAAVSEGCVEELVELLV
ELQELCRRRHDEDVPDFLMHKLTASDTGKTCLMKALLNINPNTKEIVRILLAFAEENNILGRFINAEYTE
EAYEGQTALNIAIERRQGDIAALLIAAGADVNAHAKGAFFNPKYQHEGFYFGETPLALAACTNQPEIVQL
LMEHEQTDITSRDSRGNNILHALVTVAEDFKTQNDFVKRMYDMILLRSGNWELETTRNNDGLTPLQLAAK
MGKAEILKYILSREIKEKRLRSLSRKFTDWAYGPVSSSLYDLTNVDTTTDNSVLEITVYNTNIDNRHEML
TLEPLHTLLHMKWKKFAKHMFFLSFCFYFFYNITLTLVSYYRPREEEAIPHPLALTHKMGWLQLLGRMFV
LIWAMCISVKEGIAIFLLRPSDLQSILSDAWFHFVFFIQAVLVILSVFLYLFAYKEYLACLVLAMALGWA
NMLYYTRGFQSMGMYSVMIQKVILHDVLKFLFVYIVFLLGFGVALASLIEKCPKDNKDCSSYGSFSDAVL
ELFKLTIGLGDLNIQQNSKYPILFLFLLITYVILTFVLLLNMLIALMGETVENVSKESERIWRLQRARTI
LEFEKMLPEWLRSRFRMGELCKVAEDDFRLCLRINEVKWTEWKTHVSFLNEDPGPVRRTADFNKIQDSSR
NNSKTTLNAFEEVEEFPETSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_d09.zip

Restriction Sites: SgfI-MluI

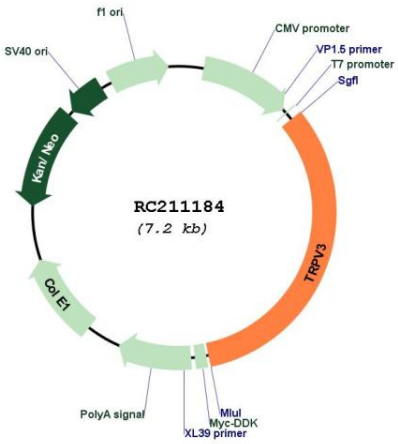
Cloning Scheme:



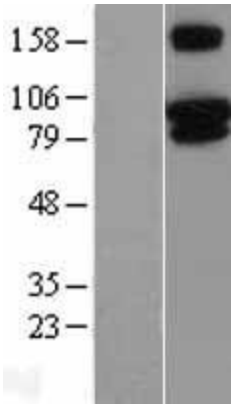
ACCN:	NM_145068
ORF Size:	2373 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_145068.4
RefSeq Size:	6130 bp
RefSeq ORF:	2373 bp
Locus ID:	162514
UniProt ID:	Q8NET8
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
MW:	90.6 kDa
Gene Summary:	This gene product belongs to a family of nonselective cation channels that function in a variety of processes, including temperature sensation and vasoregulation. The thermosensitive members of this family are expressed in subsets of sensory neurons that terminate in the skin, and are activated at distinct physiological temperatures. This channel is activated at temperatures between 22 and 40 degrees C. This gene lies in close proximity to another family member gene on chromosome 17, and the two encoded proteins are thought to associate with each other to form heteromeric channels. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RC211184



Western blot validation of overexpression lysate (Cat# [LY403422]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211184 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).