

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGCCACCCCAAGGAGATGGTGCCTCTCATGGCAAGAGAGTTGCTGCCCCAGTGGGAACCTG
 CCGTCCTGCCAGAGAAGAGGCCGGGAGATCACCCCAAAAGAAGAGTGCACACTTCTCCTGGAGAT
 AGAAGGGTTTGAACCCAACCCACAGTTGCCAAGACCTCTCCTCCTGTCTTCTCCAAGCCATGGATTCC
 AACATCCGGCAGTGCATCTCTGGTAAGTGTGATGACATGGACTCCCCCAGTCTCCTCAAGATGATGTGA
 CAGAGACCCCATCCAATCCCAACAGCCCAAGTGCACAGCTGGCCAAGGAAGAGCAGAGGAGGAAAAAGG
 GCGGCTGAAGAAGCGCATCTTTCAGCCGTGTCTGAGGGCTGCGTGGAGGAGTTGGTAGAGTTGCTGGT
 GAGCTGCAGGAGCTTTCAGGCGGCCATGATGAGGATGTGCCTGACTTCTCATGCACAAGCTGACGG
 CCTCCGACACGGGAAGACCTGCCTGATGAAGGCTTGTAAACATCAACCCCAACCAAGGAGATCGT
 GCGGATCTGCTTGCCTTTCGCTGAAGAGAACAACATCCTGGCAGTTTCATCAACCCGAGTACACAGAG
 GAGGCCTATGAAGGGCAGACGGCGCTGAACATCGCCATCGAGCGCGGCAGGGGGACATCGCAGCCCTGC
 TCATCGCCGCGCGCCGACGTCAACGCGCACGCCAAGGGGGCCTTCTTCAACCCCAAGTACCAACACGA
 AGGCTTCTACTTCGGTGAGACGCCCTGGCCCTGGCAGCATGCACCAACCAGCCCGAGATTGTGCAGCTG
 CTGATGGAGCAGCAGCAGACGGACATCACCTCGCGGACTCACGAGGCAACAACATCCTTACGCCCTGG
 TGACCGTGGCCGAGGACTTCAAGACGCAGAATGACTTTGTGAAGCGCATGTACGACATGATCCTACTGCG
 GAGTGGCAACTGGGAGCTGGAGACCACTCGCAACAACGATGGCCTCACGCCGCTGCAGCTGGCCGCCAAG
 ATGGGCAAGGCGGAGATCCTGAAGTACATCCTCAGTCGTGAGATCAAGGAGAAGCGGCTCCGGAGCCTGT
 CCAGGAAGTTCACCGACTGGGCGTACGGACCCGTGCATCCTCCCTCTACGACCTCACCAACGTGGACAC
 CACCACGGACAACCTCAGTGTGAAATCACTGTCTACAACCAACATCGACAACCGCATGAGATGCTG
 ACCCTGGAGCCGCTGCACACGCTGCTGCATATGAAGTGAAGAAGTTTGCCAAGCACATGTTCTTTCTGT
 CCTTCTGCTTTTATTTCTTCTACAACATCACCCCTGACCCTCGTCTCGTACTACCGCCCCGGGAGGAGGA
 GGCCATCCCGACCCCTTGGCCCTGACGCACAAGATGGGGTGGCTGCAGCTCCTAGGAGGATGTTTGTG
 CTCATCTGGCCATGTGCATCTCTGTGAAAGAGGGCATTGCCATCTTCTGCTGAGACCCTCGGATCTGC
 AGTCCATCCTCTCGGATGCTGGTTCCACTTTGTCTTTTTATCCAAGCTGTGCTTGTGATACTGTCTGT
 CTTCTTGTACTTGTTCCTACAAGAGTACCTCGCTGCCTCGTGTGGCCATGGCCCTGGGCTGGGCG
 AACATGCTCTACTATACGCGGGTTTCCAGTCCATGGGCATGTACAGCGTCATGATCCAGAAGGTCATTT
 TGCATGATGTTCTGAAGTCTTGTGTTGATATATCGTGTGTTTGGATTGGAGTAGCCTTGGCCTC
 GCTGATCGAGAAGTGTCCAAAGACAACAAGGACTGCAGCTCCTACGGCAGCTTCAGCGACGCAGTGCTG
 GAACTCTTCAAGCTCACCATAGGCCTGGGTGATCTGAACATCCAGCAGAACTCCAAGTATCCCATCTCT
 TTCTGTTCTGCTCATCACCTATGTCACTCACCTTTGTTCTCCTCAACATGCTCATTGCTCTGAT
 GGGCGAGACTGTGGAGAAGCTCTCAAGGAGAGCGAACGCATCTGGCGCCTGCAGAGACCAGGACCATC
 TTGGAGTTTGAGAAAATGTTACCAGAATGGCTGAGGAGCAGATCCGGATGGGAGAGCTGTGCAAGTGG
 CCGAGGATGATTTCCGACTGTGTTGCGGATCAATGAGGTGAAGTGGACTGAATGGAAGACGCACGCTC
 TTCCTTAACGAAGACCCGGGGCCTGTAAGACGAACAGCAGATTTCAACAAAATCCAAGATTCTTCCAGG
 AACACAGCAAAACCACTCTCAATGCATTTGAAGAAGTCGAGGAATTCGGGAAACCTCGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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

MKAHPKEMVPLMGKRVAAPSGNPAVLPEKRPAEITPTKSAHFFLEIEGFEPNPTVAKTSPPVFSKPMDS
NIRQCISGNCDMDSPQSPQDDVTETPSNPNSPSAQLAKEEQRRKKGRLKKRIFAAVSEGCVEELVELLV
ELQELCRRRHDEDVPDFLMHKL TASDTGKTCMKALLNINPNTKEIVRILLAF AEENNILGRFINAEYTE
EAYEGQTALNIAIERRQGDIAALLIAAGADVNAHAKGAFFNPKYQHEGFYFGETPLALAACTNQPEIVQL
LMEHEQTDITSRDSRGNNILHALVTV AEDFKTQND FVKRMYDMILLRSGNWELETTRNNDGLTPLQLAAK
MGKAEILKYILSREIKEKRLRSLSRKFTDWAYGVPVSSLYDLTNVDTTDNSVLEITVYNTNIDNRHEML
TLEPLHTLLHMKWKKFAKHMFFLSFCFYFFYNITLTLVSYRPREEEAIPHPLALTHKMGWLQLLGRMFV
LIWAMCISVKEGIAIFLLRPSDLQSILSDAWFHVFFIQAVLVILSVFLYL FAYKEYLA CLVLAMALGWA
NMLYYTRGFQSMGMYSVMIQKVILHDVLKFLFVYIVFLLGFGVALASLIEKCPKDNKDCSSYGSFSDAVL
ELFKLTIGLGD LNIQQNSKYPIFLFLLITYVILTFVLLL NMLIALMGETVENVSKESERIWRLQRARTI
LEFEKMLPEWLSRFRMGELCKVAEDDFRLCLRINEVKWTEWKTHVSFLNEDPGPVRRTADFNKIQDSSR
NNSKTTLNAFEEVEEFPETSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

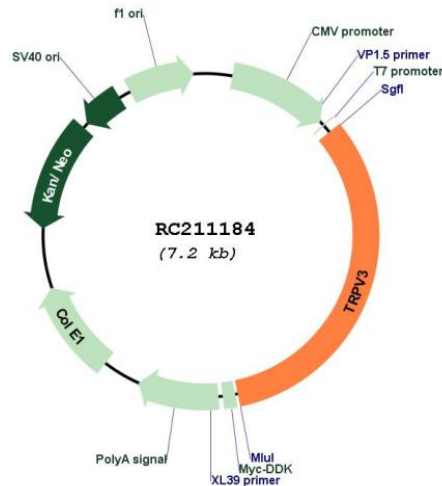
Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


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.

RefSeq: [NM_145068.4](#)

RefSeq Size: 6130 bp

RefSeq ORF: 2373 bp

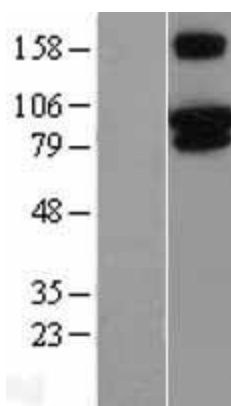
Locus ID: 162514

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:



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