

Product datasheet for **RC234884**

TRPV3 (NM_001258205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPV3 (NM_001258205) 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)



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ORF Nucleotide Sequence:

>RC234884 representing NM_001258205
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGCCACCCCAAGGAGATGGTGCCTCTCATGGCAAGAGAGTTGCTGCCCCAGTGGAACCTG
 CCATCCTGCCAGAGAAGAGGCCGGGAGATCACCCCAAAAGAAGAGTGCACACTTCTCCTGGAGAT
 AGAAGGGTTTGAACCCAACCCACAGTTGCCAAGACCTCTCCTCCTGTCTTCTCCAAGCCATGGATTCC
 AACATCCGGCAGTGCATCTCTGGTAAGTGTGATGACATGGACTCCCCCAGTCTCCTCAGGATGATGTGA
 CAGAGACCCCATCCAATCCAACAGCCCAAGTGCACAGCTGGCCAAGGAAGAGCAGAGGAGGAAAAAGAG
 GCGGCTGAAGAAGCGCATCTTTCAGCCGTGTCTGAGGGCTGCGTGGAGGAGTTGGTAGAGTTGCTGGTG
 GAGCTGCAGGAGCTTTCAGGCGGCCATGATGAGGATGTGCCTGACTTCTCATGCACAAGCTGACGG
 CCTCCGACACGGGAAGACCTGCCTGATGAAGGCTTGTAAACATCAACCCCAACCAAGGAGATAGT
 GCGGATCTGCTTGCCTTGTCTGAAGAGAACGACATCCTGGGCAGTTTCATCAACGCCGAGTACACAGAG
 GAGGCCTATGAAGGGCAGACGGCGCTGAACATCGCCATCGAGCGCGGCAGGGGGACATCGCAGCCCTGC
 TCATCGCCGCGCGCCGACGTCAACGCGCACGCCAAGGGGGCCTTCTTCAACCCCAAGTACCAACACGA
 AGGCTTCTACTTCGGTGAGACGCCCTGGCCCTGGCAGCATGCACCAACCAGCCCGAGATTGTGCAGCTG
 CTGATGGAGCAGCAGCAGACGGACATCACTCGCGGGACTCACGAGGCAACAACATCCTTACGCCCTGG
 TGACCGTGGCCGAGGACTTCAAGACGCAGAATGACTTTGTGAAGCGCATGTACGACATGATCCTACTGCG
 GAGTGGCAACTGGGAGCTGGAGACCACTCGCAACAACGATGGCCCTCACGCCGCTGCAGCTGGCCGCCAAG
 ATGGGCAAGGCGGAGATCCTGAAGTACATCCTCAGTCGTGAGATCAAGGAGAAGCGGCTCCGGAGCCTGT
 CCAGGAAGTTCACCGACTGGGCGTACGGACCCGTGCATCCTCCTCTACGACCTCACCAACGTGGACAC
 CACCACGGACAACCTCAGTGTGAAATCACTGTCTACAACACCAACATCGACAACCGGCATGAGATGCTG
 ACCCTGGAGCCGCTGCACACGCTGCTGCATATGAAGTGAAGAAGTTTGCCAAGCACATGTTCTTTCTGT
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 GGCCATCCCGACCCCTTGGCCCTGACGCACAAGATGGGGTGGCTGCAGCTCCTAGGGAGGATGTTTGTG
 CTCATCTGGCCATGTGCATCTCTGTGAAAGAGGGCATTGCCATCTTCTGCTGAGACCCTCGGATCTGC
 AGTCCATCCTCTCGGATGCTGGTTCCACTTTGTCTTTTTATCCAAGCTGTGCTTGTGATACTGTCTGT
 CTTCTTGTACTTGTGGCTACAAGAGTACCTCGCTGCCTCGTGTGGCCATGGCCCTGGGCTGGGCG
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 TGCATGATGTTCTGAAGTCTTGTGTTGATATATCGTGTGTTTGTGTTGGATTTGGAGTAGCCTTGGCCTC
 GCTGATCGAGAAGTGTCCCAAAGACAACAAGGACTGCAGCTCCTACGGCAGCTTCAGCGACGCAGTGCTG
 GAACTCTTCAAGCTCACCATAGGCCTGGGTGACCTGAACATCCAGCAGAACTCCAAGTATCCCATTTCTCT
 TTCTGTTCTGCTCATACCTATGTCACTCACCTTTGTTCTCCTCAACATGCTCATTGCTCTGAT
 GGGCGAGACTGTGGAGAAGCTCTCAAGGAGAGCGAACGCATCTGGCGCCTGCAGAGACCAGGACCATC
 TTGGAGTTTGAGAAAATGTTACCAGAATGGCTGAGGAGCAGATCCGGATGGGAGAGCTGTGCAAAGTGG
 CCGAGGATGATTTCCGACTGTGTTGCGGATCAATGAGGTGAAGTGGACTGAATGGAAGACGCACGCTCTC
 TTCCTTAACGAAGACCCGGGGCCTGTAAGACGAACAGCAGATTTCAACAAAATCCAAGATTCTTCCAGG
 AACAAACAGCAAAACCACTCTCAATGCATTTGAAGAAGTCGAGGAATTCGGGAAACCTCGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234884 representing NM_001258205
Red=Cloning site Green=Tags(s)

MKAHPKEMVPLMGKRVAAPSGNPAILPEKRPAEITPTKSAHFFLEIEGFEPNPTVAKTSPPVFSKPMDS
NIRQCISGNCDDMSPQSPQDDVTETPSNPNSPSAQLAKEEQRRKKRRLKKRIFAAVSEGCVEELVELLV
ELQELCRRRHDEDVPDFLMHKL TASDTGKTCMKALLNINPNTKEIVRILLAF AEENDILGRFINAEYTE
EAYEGQ TALNIAIERRQGDIAALLIAAGADVNAHAKGAFFNPKYQHEGFYFGETPLALAACTNQPEIVQL
LMEHEQTDITSRDSRGNNILHALVTV AEDFKTQND FVKRMYDMILLRSGNWELETTRNNDGLTPLQLAAK
MGKAEILKYILSREIKEKRLRSLSRKFTDWAYGPVSSSLYDLTNVDTTT DNSVLEITVYNTNIDNRHEML
TLEPLHTLLHMKWKKFAKHMFFLSFCFYFFYNITLTLVSYRPREEEAIPHPLALTHKMGWLQLLGRMFV
LIWAMCISVKEGIAIFLLRPSDLQSILSDAWFHVFFIQAVLVILSVFLYLFAYKEYLA CLVLAMALGWA
NMLYYTRGFQSMGMYSVMIQKVILHDVLKFLFVYIVFLLGFGVALASLIEKCPKDNKDCSSYGSFSDAVL
ELFKLTIGLGD LNIQQNSKYPIFLFLLITYVILTFVLLL NMLIALMGETVENVSKESERIWRLQRARTI
LEFEKMLPEWLSRFRMGELCKVAEDDFRLCLRINEVKWTEWKTHVSFLNEDPGPVRRTADFNKIQDSSR
NNSKTTLNAFEEVEEFPETSV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001258205

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_001258205.2](#)

RefSeq Size: 6133 bp

RefSeq ORF: 2376 bp

Locus ID: 162514

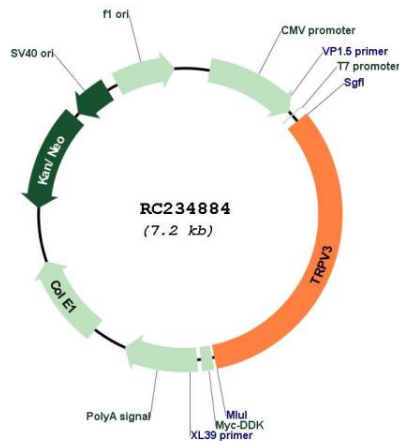
Cytogenetics: 17p13.2

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

MW: 91.2 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 RC234884