

Product datasheet for **RG234884**

TRPV3 (NM_001258205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPV3 (NM_001258205) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRPV3
Synonyms:	FNEPPK2; OLMS; OLMS1; VRL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234884 representing NM_001258205
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGCCACCCCAAGGAGATGGTGCCTCTCATGGCAAGAGAGTTGCTGCCCCAGTGGAACCTG
 CCATCCTGCCAGAGAAGAGGCCGGGAGATCACCCCAAAAGAAGAGTGCACACTTCTCCTGGAGAT
 AGAAGGGTTTGAACCCAACCCACAGTTGCCAAGACCTCTCCTCCTGTCTTCTCCAAGCCATGGATTCC
 AACATCCGGCAGTGCATCTCTGGTAACTGTGATGACATGGACTCCCCCAGTCTCCTCAGGATGATGTGA
 CAGAGACCCCATCCAATCCAACAGCCCAAGTGCACAGCTGGCCAAGGAAGAGCAGAGGAGGAAAAAGAG
 GCGGCTGAAGAAGCGCATCTTTCAGCCGTGTCTGAGGGCTGCGTGAGGAGTTGGTAGAGTTGCTGGTG
 GAGCTGCAGGAGCTTTCAGGCGGCCATGATGAGGATGTGCCTGACTTCTCATGCACAAGCTGACGG
 CCTCCGACACGGGAAGACCTGCCTGATGAAGGCTTGTAAACATCAACCCCAACCAAGGAGATAGT
 GCGGATCTGCTTGCCTTGTCTGAAGAGAACGACATCCTGGGCAGTTTCATCAACCCGAGTACACAGAG
 GAGGCCTATGAAGGGCAGACGGCGCTGAACATCGCCATCGAGCGGCGGACAGGGGACATCGCAGCCCTGC
 TCATCGCCGCGCGCCGACGTCAACGCGCACGCCAAGGGGGCCTTCTTCAACCCCAAGTACCAACACGA
 AGGCTTCTACTTCGGTGAGACGCCCTGGCCCTGGCAGCATGCACCAACAGCCCGAGATTGTGCAGCTG
 CTGATGGAGCAGCAGCAGACGGACATCACTCGCGGACTCACGAGGCAACAACATCCTTACGCCCTGG
 TGACCGTGGCCGAGGACTTCAAGACGCAGAATGACTTTGTGAAGCGCATGTACGACATGATCCTACTGCG
 GAGTGGCAACTGGGAGCTGGAGACCACTCGCAACAACGATGGCCCTCACGCCGCTGCAGCTGGCCGCAAG
 ATGGGCAAGGCGGAGATCCTGAAGTACATCCTCAGTCGTGAGATCAAGGAGAAGCGGCTCCGGAGCCTGT
 CCAGGAAGTTCACCGACTGGGCGTACGGACCCGTGCATCCTCCCTCTACGACCTCACCAACGTGGACAC
 CACCACGGACAACCTCAGTGTGAAATCACTGTCTACAACCAACATCGACAACCGGCATGAGATGCTG
 ACCCTGGAGCCGCTGCACACGCTGCTGCATATGAAGTGAAGAAGTTTGCCAAGCACATGTTCTTTCTGT
 CTTTCTGCTTTTATTTCTTCTACAACATCACCCCTGACCCTCGTCTCGTACTACCGCCCCGGGAGGAGGA
 GGCCATCCCGACCCCTTGGCCCTGACGCACAAGATGGGGTGGCTGCAGCTCCTAGGGAGGATGTTTGTG
 CTCATCTGGCCATGTGCATCTCTGTGAAAGAGGGCATTGCCATCTTCTGCTGAGACCCCTCGGATCTGC
 AGTCCATCCTCTCGGATGCTGGTTCCACTTTGTCTTTTTATCCAAGCTGTGCTTGTGATACTGTCTGT
 CTTCTTGTACTTGTGGCTACAAGAGTACCTCGCTGCCTCGTGTGGCCATGGCCCTGGGCTGGGCG
 AACATGCTCTACTATACGCGGGTTTCCAGTCCATGGGCATGTACAGCGTCATGATCCAGAAGGTCATTT
 TGCATGATGTTCTGAAGTCTTGTGTTGATATATCGTGTGTTTGTGTTGGATTTGGAGTAGCCTTGGCCTC
 GCTGATCGAGAAGTGTCCAAAGACAACAAGGACTGCAGCTCCTACGGCAGCTTCAGCGACGCAGTGCTG
 GAACTCTTCAAGCTCACCATAGGCCTGGGTGACCTGAACATCCAGCAGAACTCCAAGTATCCCATTTCTCT
 TTCTGTTCTGCTCATACCTATGTCACTCACCTTTGTTCTCCTCAACATGCTCATTGCTCTGAT
 GGGCGAGACTGTGGAGAAGCTCTCAAGGAGAGCGAACGCATCTGGCGCCTGCAGAGAGCCAGGACCATC
 TTGGAGTTTGAGAAAATGTTACCAGAATGGCTGAGGAGCAGATCCGGATGGGAGAGCTGTGCAAGTGG
 CCGAGGATGATTTCCGACTGTGTTGCGGATCAATGAGGTGAAGTGGACTGAATGGAAGACGCACGCTCTC
 TTCTCTAACGAAGACCCGGGGCCTGTAAGACGAACAGCAGATTTCAACAAAATCCAAGATTTCTCCAGG
 AACAAACAGCAAAACCACTCTCAATGCATTTGAAGAAGTCGAGGAATTCGGGAAACCTCGGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG234884 representing NM_001258205
 Red=Cloning site Green=Tags(s)

MKAHPKEMVPLMGKRVAAAPSGNPAILPEKRP AEITPTKSAHFFLEIEGFEPNPTVAKTSPPVFSKPMDS
 NIRQCISGNDDMDSPQSPQDDVTETPSNPNSPSAQLAKEEQRRKKRRLKKRIFA AVSEGCVEELVELLV
 ELQELCRRRHDEDVPDFLMHKL TASDTGKTCLMKALLNINPNTKEIVRILLAF AEENDILGRFINAEYTE
 EAYEGQTALNIAIERRQGDIAALLIAAGADVNAHAKGAFFNPKYQHEGFYFGETPLALAACTNQPEIVQL
 LMEHEQTDITSRDSRGNLILHALVTVAEDFKTQNDFVKRMYDMILLRSGNWELETTRNNDGLTPLQLAAK
 MGKAEILKYILSREIKEKRLRSLSRKFTDWAYGPVSSSLYDLTNVDTTDNSVLEITVYNTNIDNRHEML
 TLEPLHTLLHMKWKKFAKHMFFLSFCFYFFYNITLTVSYRPREEEAIPHPLALTHKMGWLQLLGRMFV
 LIWAMCISVKEGIAIFLLRPSDLQSILSDAWFHVFFIQAVLVILSVFLYLFAYKEYLACLVLAMALGWA
 NMLYYTRGFQSMGMYSMIQKVILHDVLKFLFVYIVFLLGFGVALASLIEKCPKDNKDCSSYGSFSDAVL
 ELFKLTIGLGDNIQQNSKYPILFLLITYVILTFVLLL NMLIALMGETVENVSKESERIWR LQRARTI
 LEFEKMLPEWLSRFRMGELCKVAEDDFRLCLRINEVKWTEWKTHVSFLNEDPGPVRRTADFNKIQDSSR
 NNSKTTLNAFEEVEEFPETSV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258205

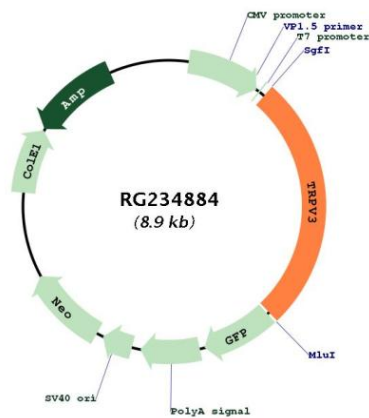
ORF Size: 2373 bp

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:	<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_001258205.2</u>
RefSeq Size:	6133 bp
RefSeq ORF:	2376 bp
Locus ID:	162514
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
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 RG234884