

Product datasheet for **RG211184**

TRPV3 (NM_145068) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPV3 (NM_145068) 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)



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ORF Nucleotide Sequence:

>RG211184 representing NM_145068
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGCCACCCCAAGGAGATGGTGCCTCTCATGGCAAGAGAGTTGCTGCCCCAGTGGGAACCTG
 CCGTCCTGCCAGAGAAGAGGCCGGGAGATCACCCCAAAAGAAGAGTGCACACTTCTTCTGGAGAT
 AGAAGGGTTTGAACCCAACCCACAGTTGCCAAGACCTCTCTCTGTCTTCTCCAAGCCATGGATTCC
 AACATCCGGCAGTGCATCTCTGGTAACTGTGATGACATGGACTCCCCCAGTCTCTCAAGATGATGTGA
 CAGAGACCCCATCCAATCCAACAGCCCAAGTGCACAGCTGGCCAAGGAAGAGCAGAGGAGGAAAAAGG
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 TTCCTTAACGAAGACCCGGGGCCTGTAAGACGAACAGCAGATTTCAACAAAATCCAAGATTTCTCCAGG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

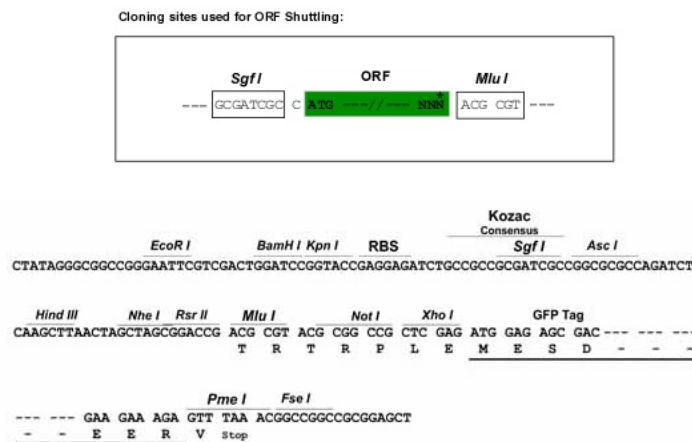
Protein Sequence: >RG211184 representing NM_145068
 Red=Cloning site Green=Tags(s)

MKAHPKEMVPLMGKRVAAAPSGNPAVLPEKRP AEITPTKSAHFFLEIEGFEPNPTVAKTSPPVFSKPMDS
 NIRQCISGNDDMDSPQSPQDDVTETPSNPNSPSAQLAKEEQRRKKGRLKKRIFA AVSEGCVEELVELLV
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 EAYEGQTALNIAIERRQGDIAALLIAAGADVNAHAKGAFFNPKYQHEGFYFGETPLALAACTNQPEIVQL
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 NMLYYTRGFQSMGMYSVMIQKVILHDVLKFLFVYIVFLLGFGVALASLIEKCPKDNKDCSSYGSFSDAVL
 ELFKLTIGLGDNIQQNSKYPILFLLITYVILTFVLLL NMLIALMGETVENVSKESERIWR LQRARTI
 LEFEKMLPEWLSRFRMGELCKVAEDDFRLCLRINEVKWTEWKTHVSFLNEDPGPVRRTADFNKIQDSSR
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145068

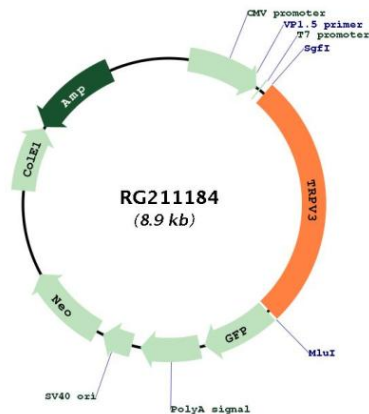
ORF Size: 2373 bp

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.
- RefSeq:** [NM_145068.2](#), [NP_659505.1](#)
- RefSeq Size:** 3420 bp
- RefSeq ORF:** 2373 bp
- Locus ID:** 162514
- UniProt ID:** [Q8NET8](#)
- 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 RG211184