

Product datasheet for **MR225379**

Trpv3 (NM_145099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpv3 (NM_145099) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpv3
Synonyms:	1110036I10Rik; A1644701; Nh; VRL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225379 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGCCCACTCCAAGGAGATGGTGCCCTCATGGGCAAAGAACCACAGCACCTGGCGGGAACCTG
 TTGTAAGTACGAGGAGAGAGGCCAGCAGATCTACCCCAACAAGAAGAGTGCACACTTCTCCTGGAGAT
 AGAAGGATTTAGCCCAACCCACGGTCAACAAGACCTCTCCACCCATCTTCTCCAAGCCGATGGACTCC
 AACATCCGGCAGTGCCTCTCTGGCAACTGTGATGACATGGACTCTCCCAAGTCTCCTCAGGATGATGTGA
 CAGAGACCCCAATCCAATCCAACAGTCCGAGCGCAAACCTGGCCAAGGAAGAACAGAGGCAGAAGAAGAA
 GCGACTGAAGAAGCGCATTTTACGGCTGTGTCTGAGGGATGCGTGGAGGAGCTGCGGGAACCTCTACAG
 GATCTGCAGGACCTCTGCAGGAGCGCCGCGCCTGGATGTGCCTGACTTCTCATGCACAAGCTGACAG
 CCTCAGACACTGGGAAGACCTGCCTGATGAAGGCTTTGCTCAACATCAATCCAACACCAAGAGATCGT
 GCGGATTCGCTTGCCTTCGCTGAGGAGAACGACATCCTGGACAGTTTCAACGCTGAGTACACGGAA
 GAGGCCTATGAAGGGCAGACAGCGCTGAACATCGCCATCGAGCGCGCCAGGGAGACATCACAGCAGTGC
 TTATAGCAGCGGGTGTGACGTCAATGCTCACGCCAAGGGGGTCTTCTTCAACCCCAAATACCAGCATGA
 AGGCTTCTATTTTGGCGAGACCCCTGGCTTTGGCAGCGTGTACCAACCAGCCTGAGATTGTGCAGCTG
 CTGATGGAGAATGAGCAGACAGACATCGCTTCCAGGATTCGCGGGAAACAACATCCTGCACGCGCTGG
 TGACGGTGGCTGAGGACTTCAAGACTCAGAATGACTTCGTTAAGCGCATGTATGACATGATCCTGCTGAG
 GAGTGGCAACTGGGAGCTGGAGACCATGCGCAACAACGATGGGCTCACGCCACTGCAGCTGGCTGCCAAG
 ATGGGCAAGGCTGAGATCCTGAAGTACATCCTCAGCCGAGATCAAGGAGAAGCCTCTCCGGAGCTTGT
 CCAGGAAGTTCAGGACTGGGCGTATGGCCTGTGTCTCATCCTCACTCTATGACCTCACCAATGTAGACAC
 AACGACGGATAACTCTGTGCTGAAATCATCGTCTACAACACCAACATTGATAACCGACATGAGATGCTG
 ACCCTGGAGCCTCTGCATACGCTGTACACACGAAATGGAAGAAATTTGCCAAGTACATGTTCTTCTTGT
 CCTTCTGCTTCTATTTCTTCTACAACATCACCCCTGACCCTTGTCTTCTACTACCGTCTCGGGAAGATGA
 GGATCTCCACACCCCTTGGCCCTGACACACAAAATGAGTTGGCTTACGCTCCTAGGGAGGATGTTTGTG
 CTCATCTGGCCACATGCATCTCTGTGAAAGAAGGCATTGCCATTTTCTGCTGAGACCCTCCGATCTT
 AGTCCATCCTGTCAGATGCTGGTTTCACTTTGTCTTTTTTGTCCAAGCTGTACTTGTGATACTGTCTGT
 ATTCTTGTACTTGTTCCTACAAGAATACCTCGCTGCCTCGTGTGGCCATGGCCCTGGGCTGGGCG
 AACATGCTCTACTACACGAGAGGCTTCCAGTCTATGGGCATGTACAGCGTCATGATCCAGAAGGTCATTT
 TGCATGATGCTCCTCAAGTCTTGTGTTTACATCCTGTTCTTACTTGGATTTGGAGTAGCGCTGGCCTC
 ACTGATTGAGAAGTGTCCAAGGACAAAAGGACTGCAGTTCTATGGCAGCTTCAGCGACGCGGTGCTG
 GAGCTCTTCAAGCTCACCATAGGCTGGGCGACCTGAACATCCAGCAGAACTCCACCTACCCCATCTCT
 TTCTCTTCTACTCATACCTATGTCACTCACCTTCGCTCCTCCTCAACATGCTCATTGCCCTGAT
 GGGGAGACGGTGGAGAAGCTCTCAAAGAAAGTGAAGCGGATCTGGCGCTTGCAGAGAGCCAGGACCATC
 TTGGAGTTTGAGAAAATGTTACCAGAATGGCTGAGAAGCAGATTCGATGGGCGAGCTGTGCAAAGTAG
 CAGATGAGGACTTCCGGCTGTGTCTGCGGATCAACGAGGTGAAGTGGACGGAATGGAAAACACACGTGTC
 CTTCTTAATGAAGACCCGGGACCCATAAGACGGACAGATTTAAACAAGATTCAAGATTCTTCAGGAGC
 AATAGCAAACCCCTCTATGCGTTTGTGATGAATTAGATGAATTCCAGAAACGTCGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225379 protein sequence
 Red=Cloning site Green=Tags(s)

MNAHSKEMVPLMGKRRTTAPGGNPVVLTEKRPADLTPTKSAHFFLEIEGFEPNPTVTKTSPPIFSKPMDS
 NIRQCLSGNCCDDMSPQSPQDDVTETPSNPNSANLAKEEQRQKKRLLKKRIFTAVSEGCVEELRELLQ
 DLQDLCRRRRGLDVPDFLMHKL TASDTGKTCMLKALLNINPNTKEIVRILLAF AEENDILDRFINAEYTE
 EAYEGQTALNIAIERRQGDITAVLIAAGADVNAHAKGVFFNPKYQHEGFYFGETPLALAACTNQPEIVQL
 LMENEQTDIASQDSRGNNILHALVTV AEDFKTQND FVKRMYDMILLRSGNWELETMRNNDGLTPLQLAAK
 MGKAEILKYILSREIKEKPLRSLSRKFTDWAYGPVSSSLYDLTNVDTTDNSVLEIIVYNTNIDNRHEML
 TLEPLHTLLHTKWKKFAKYMFFLSFCFYFFYNITLTVSYRPREDEDLPHPLALTHKMSWLQLLGRMFV
 LIWATCISVKEGIAIFLLRPSDLQSILSDAWFHVFFVQAVLVILSVFLYL FAYKEYLA CLVLAMALGWA
 NMLYYTRGFQSMGMYSVMIQKVILHDVLKFLFVYILFLLGFGVALASLIEKCSKDKKDCSSYGSFSDAVL
 ELFKLTIGLGD LNIQQNSTYIILFLLITYVILTFVLLL NMLIALMGETVENVSKESERIWRLQRARTI
 LEFEKMLPEWLSRFRMGELCKVADEFRLCLRINEVKWTEWKTHVSFLNEDPGPIRRTDLNKIQDSSRS
 NSKTTLYAFDELDEFPETSV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_145099

ORF Size: 2373 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_145099.1](#), [NM_145099.2](#), [NP_659567.2](#)

RefSeq Size: 2440 bp

RefSeq ORF: 2376 bp

Locus ID: 246788

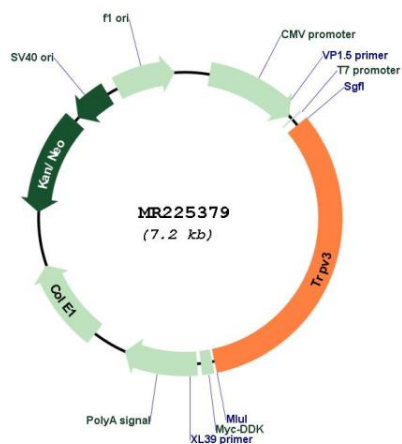
UniProt ID: [Q8K424](#)

Cytogenetics: 11 45.25 cM

MW: 90.6 kDa

Gene Summary: Putative receptor-activated non-selective calcium permeant cation channel. It is activated by innocuous (warm) temperatures and shows an increased response at noxious temperatures greater than 39 degrees Celsius. Activation exhibits an outward rectification. May associate with TRPV1 and may modulate its activity. Is a negative regulator of hair growth and cycling; TRPV3-coupled signaling suppresses keratinocyte proliferation in hair follicles and induces apoptosis and premature hair follicle regression (catagen) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225379