

Product datasheet for **MG227160**

Trpv1 (NM_001001445) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpv1 (NM_001001445) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trpv1
Synonyms:	OTRPC1; TRPV1alpha; TRPV1beta; VR-1; Vr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG227160 representing NM_001001445
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGAATGGGCTAGCTTAGACTCGGATGAATCTGAGCCCCAGCCCAAGAGAACTCCTGCCCGGACC
CTCCAGACAGAGACCCTAACTCCAAGCCGCTCCAGCCAAGCCCCACATCTTTGCTACCAGGAGTCGCAC
CCGGCTTTTTGGGAAGGGTGACTCAGAAGAGCCCTCTCCCATGGACTGCCCTTATGAGGAAGCGGGCTG
GCCTCCTGCCCTATCATCACCGTCAGCTCTGTTGTCACCTCCAGAGGTCTGTGGATGGACCTACCTGTC
TCAGGCAGACATCCAGGACTCTGTCTCCACTGGTGTGAGACGCCCAAGGCTCTATGATCGCAGGAG
CATCTTCGACGCTGTGGCTCAGAGCAACTGCCAGGAGCTGGAGAGCCTGCTGTCTTCTGCAGAAGAGC
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CTATACGGGATCCCTTAAGCCAGAGGATGCTGAGGTCTTCAAGGATTCATGGCCCCAGGGGAGAAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >MG227160 representing NM_001001445
Red=Cloning site Green=Tags(s)

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MEKWASLDSDESEPPAQENSCPDPPDRDPNSKPPPAKPHIFATRSRTRFLGKGDSEEASPMDCPYEEGGL
ASCP IITVSSVVTLQRSVDGPTCLRQTSQDSVSTGVETPPRLYDRRSIFDAVAQSNQCQELESLLSFLQKS
KKRLTDSEFKDPETGKTCLLKAMLNHNGQNDTIALLLDIARKTDSLKQFVNASYTDSYKGTALHIAI
ERRNMALVTLLEVENGADVQAAAANGDFFKKTKGRPGFYFGELPLSLAACTNQLAIVKFLQNSWQPADISA
RDSVGNVTLHALVEVADNTADNTKFVTNMYNEILILGAKLHPTLKEELTNKKGLTPLALAASSGKIGVL
AYILQREIHEPECRHLSRKFTWAYGPHSSLYDLSCIDTCEKNSVLEVIAYSSSETPNRHMMLLVEPLN
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QQMGIYAVMIEKMILRDLCRFMFVYLVFLFGFSTAVVTLIEDGKNNSLPVESPPHKCRGSACRPGNSYNS
LYSTCLELKFFTIGMGDLEFTENYDFKAVFIILLLAYVILTYILLNMLIALMGETVNKIAQESKNIWKL
QRAITILDTEKSF LKCMRKAFRSGKLLQVGFTPDGKDDFRWCFRVDEVNWTWNTNNGIINEDPGNCEGV
KRTLSFSLRSGRVSGRNWKNFALVPLL RDASTRDRHSTQPEEVQLKHYTGSLKPEDA EVFKDSMAPGEK
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TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1534_a04.zip

Restriction Sites: Sgfl-Mlul

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_001001445.2](#)

RefSeq Size: 2520 bp

RefSeq ORF: 2520 bp

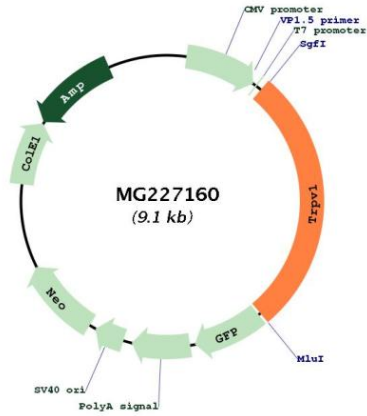
Locus ID: 193034

UniProt ID: [Q704Y3](#)

Cytogenetics: 11 45.25 cM

Gene Summary: Ligand-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli (PubMed:15194687, PubMed:15489017). Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. Involved in mediation of inflammatory pain and hyperalgesia (PubMed:10764638). Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases, which involves PKC isozymes and PCL. Activation by vanilloids, like capsaicin, and temperatures higher than 42 degrees Celsius, exhibits a time- and Ca(2+)-dependent outward rectification, followed by a long-lasting refractory state. Mild extracellular acidic pH (6.5) potentiates channel activation by noxious heat and vanilloids, whereas acidic conditions (pH <6) directly activate the channel. Can be activated by endogenous compounds, including 12-hydroperoxytetraenoic acid and bradykinin. Acts as ionotropic endocannabinoid receptor with central neuromodulatory effects. Triggers a form of long-term depression (TRPV1-LTD) mediated by the endocannabinoid anandamine in the hippocampus and nucleus accumbens by affecting AMPA receptors endocytosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227160