

Product datasheet for **MR225477**

Tpcn2 (NM_146206) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpcn2 (NM_146206) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpcn2
Synonyms:	D830047E22Rik; Gm35086
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR225477 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCAGAAGAGCAGCCCCCTCTGGGCCGGGGCCGAGGCAGTGGCCAGGTCCACTCCGGTGCTGCAG
CCGATCAGGAGCTCTGCATAGACCAGGCTGTGGTCTTCATTGAAGACGCCATAAAGTACCGCTCCATCTA
CCACCGCATGGATGCTGGTTTCATTGTGGCTTTACCCTGGTATTACTCGAACGTCTGCCAACGTGTGCTG
GGCTTCATCATTTTCTGATCCTGATCTTGGCTTTGTGGAGGTCCCATCTTCCTTCACAAAGACTGCAG
ATGTGCGCTACCGTTCCAGCCCTGGCAGCCGCCCTGTGGCTGACCGAGACGATCGAGGCGTTCTGCTT
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GTGGAGCTCATGTTCAAGGATATCCTAGAAGAGCCCAAGGAGGAGGAAGTATGGAGAAGCTACACAAAC
ACCCACACTTGCATCTGTGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225477 protein sequence
 Red=Cloning site Green=Tags(s)

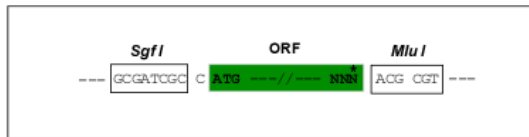
MAAEEQPLLGRGRGSGQVHSGAAADQELCIDQAVVFIEDAIKYRSIYHRMDAGSLWL YRWYYSNVCQRVL
 GFIIIFLILILAFVEVPSSFTKTADVRYRSQPWQPPCGLTETIEAFCLLAFVLDL SVKGYL VGQAQLQNL
 WLLAYFMVLVSVVDWIVSL SLACEEPLRMRLLRPFLLQNSSMMKTKLCIRWSLPEMASVGLLLAIH
 LCLFTIIGMLLFTIGEKDEAQDQERLAYFRNLPEALTSLLVLLTTSNNPDVMIPAYTQNRALFFIVFT
 LIGSLFLMNLTTAIIYNQFRGYLMKSLQTSLFRRLGARAAYEVLASRAGPAGTTPELVGVNPETFLPVL
 QKTQLNKTHKQAIMQKVQSYEGRPMLADEFQKLFDEVDKGVAKERPLKPQYQSPFLQTAQFIFSHHYFDY
 LGNLVALGNLLSICVFLVLDSDLLPGERDDFVLGILDYIFILYELLELFKVFALGLPGYLSYHSNVFDG
 LLTIILLVSEICTLAVYRLPHSGWKPEYGPLSLWDMTRLMNTLIVFRFLRIIPNIKMAEVANTILGLI
 PNLRAFGGILVVAYYVFAMIGINLFRGVI VPPGNSSLVPDNN SAVCGSFEQLGYWPNNFDDFAAALITLW
 NVMVVNNWQVILEAYKRYAGPWSMVYFVLWVLVSSVIWINLFLALLLENFLHRWDPQGHKQLLVGTKQMS
 VELMFRDILEEPKEEELMEKLHKHHPHLHLCR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_146206

ORF Size: 2196 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_146206.2](#), [NM_146206.3](#), [NM_146206.4](#), [NM_146206.5](#), [NP_666318.2](#)

RefSeq Size: 2909 bp

RefSeq ORF: 2196 bp

Locus ID: 233979

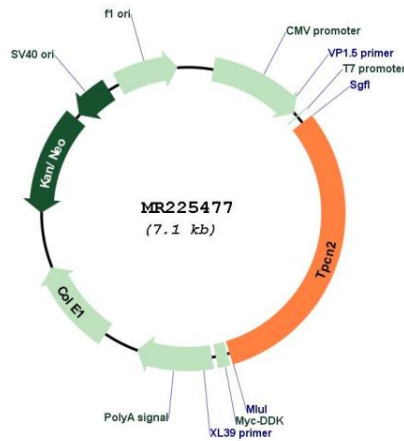
UniProt ID: [Q8BWC0](#)

Cytogenetics: 7 F5

MW: 83.5 kDa

Gene Summary: Nicotinic acid adenine dinucleotide phosphate (NAADP) receptor that may function as one of the major voltage-gated Ca(2+) channels (VDCC) across the lysosomal membrane. Involved in smooth muscle contraction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225477