

Product datasheet for **MG225477**

Tpcn2 (NM_146206) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpcn2 (NM_146206) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tpcn2
Synonyms:	D830047E22Rik; Gm35086
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG225477 representing NM_146206
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCAGAAGAGCAGCCCCCTCTGGGCCGGGCGCCAGGCAGTGGCCAGTCCACTCCGGTGCTGCAG
CCGATCAGGAGCTCTGCATAGACCAGGCTGTGGCTTCATTGAAGACGCCATAAAGTACCGCTCCATCTA
CCACCGCATGGATGCTGGTTCATTGTGGCTTTACCCTGGTATTACTCGAACGTCTGCCAACGTGTGCTG
GGCTTCATCATTTTCTGATCCTGATCTTGGCTTTGTGGAGGTCCCATCTTCCTTCACAAAGACTGCAG
ATGTGCGCTACCGTCCAGCCCTGGCAGCCGCCCTGTGGCTGACCGAGACGATCGAGGCGTTCTGCTT
GCTTGCCTTCTGGTTGACCTCTCTGTGAAGGGCTACTTGGTTGGGCAGGCCAGTTGCAGCAGAACCTG
TGGCTGCTGGCCTACTTTATGGTCTGGTTGTGTCTGTGGTGGACTGGATCGTTTCGCTGAGCCTTGCTT
GTGAGGAGCCCTGCGGATGCGCCGGCTGCTCCGCCCTTCTTCCTGCTGCAGAATTCCTCCATGATGAA
GAAGACCTGAAGTGTATACGGTGGTCTGCTACCAGAAATGGCCAGTGTGGGCTGCTGCTGGCCATCCAC
CTGTGTCTCTTACCATCATTGGGATGCTGCTGTTCAACATTGGTGAGAAGGATGAAGCAGAGGACCAGG
AGAGGCTGGCCTACTTCCGGAACCTTCCAGAAGCACTGACCTCACTCCTAGTGCTGCTGACGACTCCAA
CAACCCTGATGTGATGATCCCTGCGTATACTCAGAACCGGCCCTTGGCTCTTCTTTCATAGTCTTACC
TTGATAGGAAGCTTGTCTGATGAACCTGCTGACAGCCATCATCTATAATCAGTTCCGTGGCTACCTAA
TGAAATCTCTACAGACCTCACTGTTCCGGCGGCGACTGGGGGCCCGTGCAGCCTACGAAGTCTCGCCTC
CAGGGCCGGCCAGCTGGAACACCCCTGAGTTAGTTGGGGTGAATCCTGAGACCTTCTGCCAGTGCTT
CAGAAAACGCAGCTGAACAAAACCCACAAAACAAGCCATTATGCAGAAGGTGCAGTCTATGAAGGCCGCC
CAATGCTGGCTGATGAGTCCAGAACTCTTCGATGAGGTTGACAAAGGTGTGCCAAAGAGCGCCCGCT
GAAGCCCCAATACCAGTCTCCATTTCTGCAGACTGCCAGTTCATCTTTAGCCACCACTACTTCGACTAC
CTGGGGAACCTCGTCTGCTGGGAAACCTTGTCTATTTGTGTGTTCTGGTGTGGACTCAGACCTGC
TGCTGGGGAACGTGATGACTTTGCTGGGGATTCTTGACTACATCTTCATCTTGTACTACCTGCTGGA
GCTGCTGTTTAAGGTGTTGCGCTGGGCTGCCAGGCTACCTGTCTACCATAGCAATGTGTTTATGAGC
CTCCTCACCATCATCCTGCTGGTTTCGGAGATTGACCCTGGCTGTATACCGATTGCCGCACTCAGGAT
GGAAGCCAGAGCAGTATGGCCACTGTCGCTCTGGGACATGACACGACTGATGAACACACTGATTGTGT
TCGCTTCTGCGCATCATCCCCAACATAAAGCCAATGGCTGAGGTAGCCAACACCATCCTGGCCTAATC
CCTAATTGAGGGCATTGGTGGGATCCTGGTGGTGGCATACTATGTGTTTGCATGATCGGGATCAACC
TGTTCCGAGGTGTCATCGTGCCTCCTGGAACAGCAGCCTGGTCCCACAACTCAGCTGTATGTGG
AAGCTTTGAGCAGCTAGGTTACTGGCCAACTTTGACGACTTTGCTGCTGCTTTGATCACACTGTGG
AACGTGATGGTGGTGAACAATTGGCAGGTGATCCTGGAAGCCTATAAGCGCTACGCAGGCCCGTGGTCAA
TGGTGTATTTTGTGCTATGGTGGCTGGTGTCTCTGTTATCTGGATCAACCTGTTTCTGGCTCTTCTTCT
GGAGAATTTCTCCACAGATGGGACCCTCAAGGTGATAAGCAGCTCCTTGTGGGACCAAGCAGATGTCT
GTGGAGCTCATGTTCAAGGATATCCTAGAAGAGCCCAAGGAGGAGGAAGTATGGAGAAGCTACACAAAC
ACCCACACTTGCATCTGTGCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225477 representing NM_146206
 Red=Cloning site Green=Tags(s)

MAAEEQPLLGRGRGSGQVHSGAAADQELCIDQAVVFIEDAIKYRSIYHRMDAGSLWLYRWYYSNVCQRVL
 GFIIIFLILILAFVEVPSSF TKTADVRYRSQPWQPPCGLTETIEAFCLLAFVLDL SVKGYLVGQAQLQONL
 WLLAYFMVLVSVVDWIVSLSLACEEPLRMRRLLRPFLLQNSSMMKKTLCIRWSLPEMASVGLLLAIH
 LCLFTIIGMLLFTIGEKDEAQDQERLAYFRNLPEALTSLLVLLTTSNNPDVMIPAYTQNRALFFIVFT
 LIGSLFLMNLTTAIIYNQFRGYLMKSLQTSLFRRLGARAAYEVLASRAGPAGTTPELVGVNPETFLPVL
 QKTQLNKTHKQAIMQKVQSYEGRPMLADEFQKLFDEVDKGVAKERPLKPQYQSPFLQTAQFIFSHHYFDY
 LGNLVALGNLLSICVFLVLDSDLLPGERDDFVLGILDYIFILYILLELLFKVFALGLPGYLSYHSNVFDG
 LLTIILLVSEICTLAVYRLPHSGWKPEQYGPLSLWDMTRLMNTLIVFRFLRIIPNIKMAEVANTILGLI
 PNLRAFGGILVVAYYVFAMIGINLFRGVI VPPGNSSLVPDNN SAVCGSFEQLGYWPNNFDDFAAALITLW
 NVMVVNNWQVILEAYKRYAGPWSMVYFVLWVLVSSVIWINLFLALLLENLHRWDPQGHKQLLVGTKQMS
 VELMFRDILEEPKEEELMEKLNKHPHLHLCR

TRTRPLE - GFP Tag - V

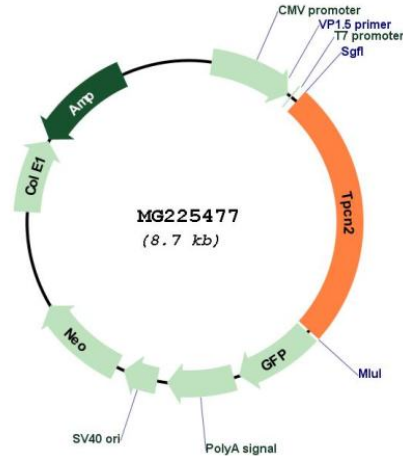
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_146206

ORF Size: 2193 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_146206.4](#), [NP_666318.2](#)

RefSeq Size: 2909 bp

RefSeq ORF: 2196 bp

Locus ID: 233979

UniProt ID: [Q8BWC0](#)

Cytogenetics: 7 F5

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]