

## Product datasheet for **MR210795**

### **Tpcn1 (NM\_145853) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tpcn1 (NM_145853) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpcn1
Synonyms:	5730403B01Rik; mKIAA1169; Tpc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210795 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGTAAGTTTATAGTACGATGTGCCGCTCATCTGACCTTGGACGAGGCTGAGAGTCTCCGCTGC  
 CTCTTCGAACAGCCTGGGCCAAGAGCAGCTGCCAGCAAAAATGGGGGAGCCACAGCATCCACAACCTC  
 CCAGGTCCCAGTCTGGTCTCCGGAGCGGACAGCCCCCTCCAGTCCCACCGGACACAACCTGGGAGATG  
 AATTATCAAGAGGCGGAATCTACCTCCAGGAAGGTGAGAACAACGACAAGTTCTTACCCACCCCAAGG  
 ATGCCAGAGCGTGGCGGCTACCTCTTCGTCACCAACCACTTCTTACATGATGGAGCTGCTCACGGC  
 CCTGCTCTGCTGCTGTGCTGTGCGAGTCCCCCGTGTCCCGTGTCAAGCTGCACACTTACGTC  
 CACGCCACGCTGGAACCTTTGCCCTCATGGTGGTGGTATTTGAACTCTGCATGAAATTGCGGTGGCTGG  
 GCTTCCACACGTTTCGTCGGCACAACGTACCATGGTCAAGACGTCGGTCTCGTGGTGCAGTTCATCGA  
 GGCCATTGTGGTCTGGTTCGGCAGACGTCCCACGTGCGGGTACCCGGGCACTACGCTGCATTTTCTCG  
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 TGGACATCCTCCTGTTGCTGCTCTTCTTATGATCATCTTTGCCATCCTCGGTTTCTACTTATTCTCCAC  
 AAATCCTTCCGACCCCTACTTCAGCACCCCTGGAGAACAGCATCGTCAACCTGTTGCTTCTCTGACCACA  
 GCCAATTTCCAGATGTCATGATGCCCTCTACTCCCGGAACCCCTGGTCTGCGTCTTCTTATTGAT  
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 TGAAAAGCACAAGTTCAGTCTTTGCTGCTGCACAAACGGACCCCATCCAGCATGCCTACGGCCTGCTT  
 GCCAGCCAACGGAGGCCGGTGGCATCTCTACAGGCAGTTCGAAGGCTTAATGCGTCTTACAAGCCCC  
 GGATGAGTCAAGGGAACGCTTCTGACTTCAAGGCCTTGAACCAGAGCAACACGCTCTGCTCAGCCT  
 GAAGGACTTCTATGATATTTACGAAGTCGCTGCTGTCAGTGAAGGCAAGAGAAAACAGACAGCATTGG  
 TTTGATGAGCTCCCCGACAGCCTTCTCATCTTCAAAGGGATTAACATCCTTGTGAATTTCAAGGCCCT  
 TCCAGTATTTTATGACTTGGTGGTGGCTGTCAACGGTGTCTGGATCCTGGTGGAGACATTCATGTTGAA  
 AGGTGGGAATTTACCTCAAAGCATGTGCCCTGGAGTTACCTCGTGTCTTACCATCTATGGAGTTGAA  
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 CGGTACGGCATTGCGCTTCTGGGACTGCTCGCACTGACGCTCAACATGGAACCCCTTCTATTTTATTGT  
 GGTCTGCGTCCCCTTACGCTGCTGAGGTTATTTAACTGAAGAAACGCTACCGCAACGTTGGACACC  
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 GGTGGTGTGACCATATCGTGGCCTTCTGAGGCTTCTGCTTCCGCATGAACTACAGCCGCAAG  
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 GATGGAGAAATACCAGCAAAATTCATGGTGTCTGGGACGGGATCGAGAACCAAAAGTGACCTGAGT  
 CTGAAGATGTACCAGGAGGAGATCCAGGAGTGGTACGAGGAGCATGCCCGGGAACAGGAGCAGCAGAAGC  
 TCAGGGGACGCTGCCCGCCCTGCAGCCAGCAGCCCCCTGGCAGTCCGACGCGCTCCAGACTGTCAC  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;MR210795 protein sequence

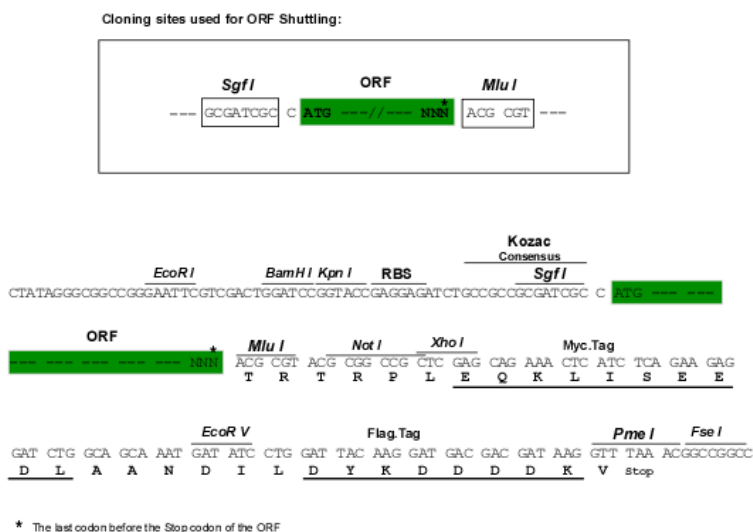
Red=Cloning site Green=Tags(s)

MAVSLDDDVPLILTLDEAESAPLPPSNLSGQEQLPSKNGGSHSIHNSQVPSLVSGADSPSSPTGHNWEM  
NYQEAAIYLQEGQNNDKFFTHPKDARALAAAYLFVHNHFYMMELLTALLLLLLSLCESPAVPVLKLHTYV  
HATLELFALMVVVFELCMKLRWLGFTFVRHKRTMVKTSVLVVQFIEAIVVLRQTSHVRVTRALRCIFL  
VDCRYCGGVRRLRQIFQSLPPFMDILLLLLFFMIIFAILGFYLFSTNPSDPYFSTLENSIVNLFVLLTT  
ANFPDVMMPYSYRNPWSCVFFIVYLSIELYFIMNLLLAVVFDTFNDIEKHKFKSLLLHKRTAIQHAYGLL  
ASQRRPAGISYRQFEGLMRFYKPRMSARERFLTFKALNQSNTPLLKDFYDIYEVAALQWKAKRNRQHW  
FDELPRTAFLIFKGINILVNSKAFQYFMYLVVAVNGVWILVETFMLKGGNFTSKHVPWSYLVFLTIYGVE  
LFMKVAGLGPVEYLSGWNLDFSVTAF AFLGLLALTLNMEPFYFIVVLRPLQLLRLFKLKKRYRNVLDL  
MFELLPRMASLGLTLLTFYYSFAIVGMEFFNGRLTPNCCNTSTVADAYRFINHTVGNKTKVEEGYYLNN  
FDNILNSFVTLFELTVVNNWYIIMEGVTSTSHWSRLYFMTFYIVTMVMTIIVAFILEAFVFRMNYSRK  
SQDSEVDSGIVIEKEMSKEELMAVLELYREERGTSSDVTRLLDTLSQMEKYQQNSMVFLGRRSRKSDLS  
LKMYQEEIQEWYEEHAREQEQQKLRGSVPGPAAQQPPGSRQRSQTVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_145853

**ORF Size:** 2454 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\\_145853.2](#), [NP\\_665852.1](#)

**RefSeq Size:** 4666 bp

**RefSeq ORF:** 2454 bp

**Locus ID:** 252972

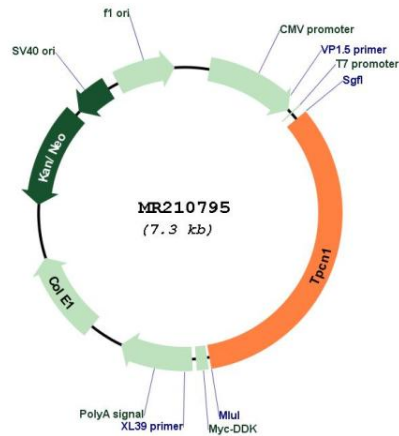
**UniProt ID:** [Q9EQJ0](#)

**Cytogenetics:** 5 F

**MW:** 94.5 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 and endosomal membrane.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210795