

Product datasheet for **RR213405**

Tpcn1 (NM_139332) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpcn1 (NM_139332) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpcn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR213405 representing NM_139332
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGAATTTAGACGACGACGTGCTGCTCATCTGACCTTGGACGAGGAGCTGAGTGCGCCGCTGA
 CTCTTCCAACGGCTGGGCCAAGAAGACCTGCCAGCAAAAATGGGGCGGCCAAAGCGCCCAACTC
 CCAAGTCCCAAGTCTGGTCTCTGGAGCCGACAGTCCCCCTCCAGTCCCCCGGACACAACCTGGGAGATG
 AATTATCAAGAGGACGCAATCTACCTCCAGGAAGGCCAGAACAATGACAAGTTCTTCACCCACCCCAAGG
 ATGCCAGAGCGCTGGCTGCCTACCTCTTCGTACACAACCACTTCTTTTATATGATGGAGCTGCTCACAGC
 CCTGCTTCTGCTGCTGCTGCTCACTGTGCGAGTACCCCGCTGTCCCTGCGCTCAAGCTCCGAACTTACGTC
 CACGCCACCTGGAGCTGTTCCGCCTCATGGTGGTGGTATTTGAACTCTGCATGAAATTGCGGTGGCTGG
 GCTTCCACACATTCGTACAGCACAACGCACCATGGTCAAGACGTCTGTTTTGGTGGTGCAGTTCATCGA
 GGCCATTGTGGTCTGGTGGCGGACAGCTCCACGTGCGGGTACCCGGGCACTACGCTGCATTTTCTCTG
 GTGGACTGTCGGTACTGTGGTGGCGTGGCGCAACCTGCGGCAGATCTCCAGTCCGCTGCCGCCTTCA
 TGGACATCCTCCTGCTGCTGCTTCTTTATGATCATCTTCGCCATCCTCGGTTTCTACTTATTCTCTAC
 GAACCTTCCGACCTTACTTCAACACCCTGGAGAACAGCATCGTCAACCTGTTTGTCTCTGACCACA
 GCCAACTTTCAGACGTCATGATGCCCTCTACTCCCGGAACCCCTGGTCTGTGCTTCTTTATCGTGT
 ACCTCTCCATTGAGCTGTACTTCATCATGAACCTGCTCCTAGCCGTGGTGTTCGACACCTCAACGACAT
 CGAAAAGCACAAGTTCAGTCTTGTGCTGCATAAGCGAACAGCCATCCAGCACGCATACCACCTGCTC
 GTCAGCCAACGGAGGCCCGCCGATCTCTACAGGCAGTTTGAAGGCTTGATGCGCTTCTACAAGCCCC
 GGATGAGCGCTAGGGAGCGCTTCTGACTTTCAAGGCCCTGAATCAGAGCAACACACCTCTGCTTAGCCT
 GAAGGACTTCTATGATATTTATGAAGTTGCTGCTGCAAGTGAAGGCAAGAAGAACAGACAGCACTGG
 TTTGACGAGCTTCCCGGACAGCCTTCTCATCTTCAAAGGGATTAAACATCCTTGTGAATCCAAGGCC
 TCCAGTATTTATGATGACCTGGTGGTGGCTGTCAACGGTGTCTGGATCCTAGTGGAGACATTCATGTTGAA
 AGGTGGGAATTTATCTCAAAGCACGTGCCCTGGAGTTACCTCGTGTTCCTTACCATCTATGGAGTTGAG
 CTGTTTATGAAGTGGCTGGCTGGGCCCTGTGGAGTACTTGTCTCTGGATGGAACCTGTTGATTTCT
 CAGTCACAGCATTTGCCCTCCTGGGACTGCTCGCGCTGACGCTCAACATGGAGCCCTTCTACTTTATTGT
 GGTCTGCGTCCCCTCAGCTGCTGAGGTTATTCAAGTTGAAGAAACGCTACCGCAATGTGTTGGACACC
 ATGTTTGAAGTGTGCCACGAATGGCCAGCCTCGGCCTCACACTGCTCACCTTCTACTACTCCTTCCCA
 TCGTGGGCATGGAGTTCTCAGTGGGCGACTGTCCCCAACTGCTGCAACTCCAGCACGGTGGCTGACGC
 CTATCGATTATCAATCACACGGTGGGCAATAAGACCAAGGTGGAGGAAGGCTACTACTATCTCAATAAC
 TTTGACAACATCCTCAACAGCTTTGTGACCTTGTTTGAGCTCACCGTTGTCAACAACCTGGTACATCATCA
 TGGAAGGCGTCACCTCGCAGACTTCCCACTGGAGCCGCTGTACTTTCATGACCTTTTACATCGTGACCAT
 GGTGGTGTGACCATATCGTGGCCTTATCCTGGAGGCCTTCGTCTTCCGATGAACTACAGCCGCAAG
 AGCCAGGAATCGGAAGTGGACAGTGGCATCGTCATCGAGAAGGAGATGTCCAAGGAGGAGCTTCTGGCCA
 TCCTGGAGCTTATCGAGAGGCGGAGGCACCTCTCTGACATCACCCGGCTGCTCGACACCTCTCTCA
 GATGGAGAAATACCAGCAAACTCCATGGTGTTCCTGGGACGGGATCGAGAACCAGCAAAAGTACCTGAGC
 CTGAAGATGTACCAGGAGGAGATCCAGGAGTGGTACGAGGAGCATGCCCGGGAACAGGAGCAGCAGCAGC
 TCAGGGGACGCGCCAAGCCCTGCAGCCAGCAGACCCCGGAGTCCGACGCGCTCCAGACCGTCCAC
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213405 representing NM_139332
Red=Cloning site Green=Tags(s)

MSVILDDDVLLILTLDEELSAPLTPSNLGGQEDLPSKNGGGQSGPNSQVPSLVSGADSPSSPPGHNWEM
NYQEAAIYLQEGQNDKFFTHPKDARALAAFLVHNHFFYMMELLTALLLLLLSLCESPAVPALKLRTYV
HATLELFALMVVVFELCMKLRWLGFHTFVRHKRTMVKTSVLVVQFIEAIVVLVRQTSHRVTRALRCIFL
VDCRYCGGVRRLRQIFQSLPPFMDILLLLLFFMIIFAILGFYLFSTNPSDPYFNTLENSIVNLFVLLTT
ANFPDVMMPYSYRNPWSCVFFIVYLSIELYFIMNLLLAVVFDTFNDIEKHKFKSLLLHKRTAIQHAYHLL
VSQRRPAGISYRQFEGLMRFYKPRMSARERFLTFKALNQSNTPLLKDFYDIYEVAALQWKAKKNRQHW
FDELPRTAFLIFKGINILVNSKAFQYFMYLVAVNGVWILVETFMLKGGNFISKHVPWSYLVFLTIYGVE
LFMKVAGLGPVEYLSGWNLDFSVTAF AFLGLLALTLNMEPFYFIVVLRPLQLLRLFKLKKRYRNVLDL
MFELLPRMASLGLTLLTFYYSFAIVGMEFFSGRLSPNCCNSSTVADAYRFINHTVGNKTKVEEGYYLNN
FDNILNSFVTLFELTVVNNWYIIMEGVTSTSHWSRLYFMTFYIVTMVMTIIVAFILEAFVFRMNYSRK
SQESEVDSGIVIEKEMSKEELLAIELHREARGTSSDITRLDLSQMEKYQQNSMVFLGRRSRTKSDLS
LKMYQEEIQEWYEEHAREQEQQQLRGSAPSPAAQQTPGSRQRSQTVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_139332

ORF Size: 2451 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_139332.3](#), [NP_647548.2](#)

RefSeq Size: 4735 bp

RefSeq ORF: 2454 bp

Locus ID: 246215

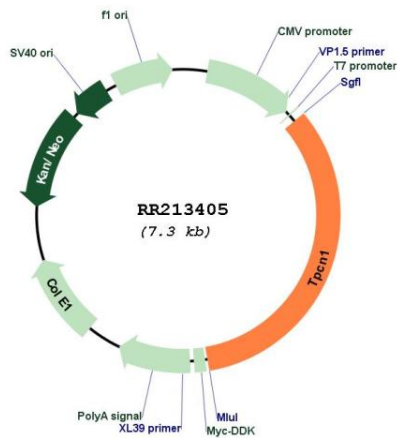
UniProt ID: [Q9WTN5](#)

Cytogenetics: 12q16

MW: 94.4 kDa

Gene Summary: two-pore voltage-gated sodium and calcium channel [RGD, Feb 2006]

Product images:



Circular map for RR213405