

Product datasheet for **SC314764**

TPCN1 (NM_017901) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPCN1 (NM_017901) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPCN1
Synonyms:	TPC1
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_017901, the custom clone sequence may differ by one or more nucleotides

```

ATGGCTGTGAGTTTGGATGACGACGTGCCGCTCATCCTGACCTTGGATGAGGGTGGCAGT
GCCCCACTGGCTCCCTCCAACGGCTGGGCCAAGAAGAGCTACCTAGCAAAAATGGCGGC
AGCTATGCCATCCAGACTCCCAGGCCCCAGTCTCAGCTCTGGGGTGAGAGTTCCCC
TCCAGCCCCGCACACAACACTGGGAGATGAATTACCAAGAGCAGCAATCTACCTCCAGGAA
GGCGAGAACAACGACAAGTTCTTACCCACCCCAAGGATGCCAAGGCGCTGGCGGCTAC
CTCTTTGCACACAATCACCTCTTCTACCTGATGGAGCTGGCCACGGCCCTGCTGCTGCTG
CTGCTCTCCCTGTGCGAGGCCCCCGCCGCTCCCGCACTCCGGCTTGGCATCTATGTCAC
GCCACCCTGGAGCTGTTTGCCTGATGGTGGTAGTGTGTTGAACTCTGCATGAAGTTACGC
TGGCTGGGCTCCACACCTTCCATCCGGCACAAGCGGACCATGGTCAAGACCTCGGTGCTG
GTGGTGACAGTTTGTGAGGCCATCGTGGTGTGGTACGGCAGATGTCCATGTGCGGGTG
ACCCGAGCACTGCGCTGCATTTTCTGGTGGACTGTGGTATTGCGGTGGCGTCCGGCGC
AACCTGCGGCAGATCTTCCAGTCCCTGCCGCCCTCATGGACATCCTCCTGCTGCTGCTG
TTCTTCATGATCATCTTTGCCATCCTCGGTTTCTACTTGTCTCCCTAACCTTCAGAC
CCCTACTTCAGCACCTGGAGAACAGCATCGTCAGTCTGTTTGTCTTCTGACCACAGCC
AATTTCCAGATGTGATGATGCCCTCCTACTCCCGAACCCTGGTCTCGCTCTTCTTC
ATCGTGTACCTCTCCATCGAGCTGTATTTATCATGAACCTGCTTCTGGCTGTGGTGTTC
GACACCTTCAATGACATTGAGAAACGCAAGTTCAAGTCTTTGCTACTGCACAAGCGAACC
GCTATCCAGCATGCCTACCGCTGCTCATCAGCCAGAGGAGGCCGTCGCCGCATCTCCTAC
AGGCAGTTTGAAGGCCTCATGCGCTTCTACAAGCCCCGGATGAGTGCCAGGGAGCGCTAT
CTTACCTCAAGGCCCTGAATCAGAACAACACCCCTGCTCAGCCTAAAGGACTTTTAC
GATATCTACGAAGTTGCTGCTTTGAAGTGAAGGCCAAGAAAAACAGAGACACTGGTTT
GATGAGCTTCCCAGGACGGCGCTCCTCATCTTCAAAGGTTAATATCCTTGTGAAGTCC
AAGGCCTTCCAGTATTTATGACTTGGTGGTGGCAGTCAACGGGGTCTGGATCCTCGTG
GAGACATTTATGCTGAAAGGTGGGAACCTTCTTCCAAGCACGTGCCCTGGAGTTACCTC
GTCTTTTAACTATCTATGGGGTGGAGCTGTTCTGAAGTTGCCGGCTGGGCCCTGTG
GAGTACTGTCTCCGGATGGAACCTGTTTACTTCTCCGTGACAGTGTTCGCCTTCTG
GGACTGCTGGCGCTGGCCCTCAACATGGAGCCCTTCTATTTATCGTGGTCTGCGCCCC
CTCCAGCTGCTGAGTTGTTAAGTTGAAGGAGCGCTACCGCAACGTGCTGGACACCATG
TTCGAGCTGCTGCCCCGGATGGCCAGCCTGGGCCTCACCTGCTCATCTTTACTACTCC
TTCGCCATCGTGGGCATGGAGTTCTTCTGCGGGATCGTCTTCCCAACTGCTGCAACACG
AGTACAGTGGCAGATGCCTACCGCTGGCGCAACCACACCGTGGGCAACAGGACCGTGGTG
GAGGAAGGCTACTATTATCTCAATAATTTTGAACAATCCTCAACAGCTTTGTGACCCTG
TTTGAGCTCACAGTTGTCAACAACCTGGTACATCATGGAAGGCGTCACCTCTCAGACC
TCCCCTGGAGCCGCTTACTTTCATGACCTTTTACATTTGACCATGGTGGTGTGACG
ATCATTGTGCGCTTTATCCTCGAGGCCCTTCGTCTTCCGAATGAACTACAGCCGCAAGAAC
CAGGACTCGGAAGTTGATGGTGGCATCACCTTGAGAAGGAAATCTCAAAGAAGAGCTG
GTTGCCGTCTGGAGCTTACCAGGAGGACGGGGGGCTCCTCGGATGTCACCAGGCTG
CTGGAGACCCTTCCCAGATGGAGAGATACCAGCAACATTCATGGTGTCTGGGACGG
CGATCAAGGACCAAGAGCGACCTGAGCCTGAAGATGTACCAGGAGGAGATCCAGGAGTGG
TATGAGGAGCATGCCAGGGAGCAAGAGCAGCAGCGACAACCTCAGCAGCAGTGCAGCCCC
GCCGCCAGCAGCCCCAGGAGCCGCCAGCGCTCCAGACCGTTACC

```

Restriction Sites: Please inquire

ACCN: NM_017901

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_017901.3, NP_060371.2</p>
RefSeq Size:	<p>2810 bp</p>
RefSeq ORF:	<p>2451 bp</p>
Locus ID:	<p>53373</p>
UniProt ID:	<p>Q9ULQ1</p>
Cytogenetics:	<p>12q24.13</p>
Protein Families:	<p>Druggable Genome, Ion Channels: Other, Transmembrane</p>
Gene Summary:	<p>Voltage-gated Ca(2+) and Na+ channels have 4 homologous domains, each containing 6 transmembrane segments, S1 to S6. TPCN1 is similar to these channels, but it has only 2 domains containing S1 to S6 (Ishibashi et al., 2000 [PubMed 10753632]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1.</p>