

## Product datasheet for **SC337363**

### TPCN1 (NM\_001301214) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TPCN1 (NM_001301214) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPCN1
Synonyms:	TPC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001301214, the custom clone sequence may differ by one or more nucleotides

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ATGAATTACCAAGAGGCAGCAATCTACCTCCAGGAAGGCGAGAACAACGACAAGTTCTTCACCCACCCCA
AGGATGCCAAGGCGCTGGCGGCCTACCTCTTGCACACAATCACCTCTTCTACCTGATGGAGCTGGCCAC
GGCCCTGCTGCTGCTGCTCCTGTGCGAGGCCCGCCGCTCCCGCACTCCGGCTTGGCATCTAT
GTCCACGCCACCCTGGAGCTGTTTGCCTGATGGTGGTAGTGTGTTGAACCTGCATGAAGTTACGCTGGC
TGGGCCTCCACACCTTATCCGGCACAAGCGGACCATGGTCAAGACCTCGGTGCTGGTGGTGCAGTTTGT
CGAGGCCATCGTGGTGTGGTACGGCAGATGTCCCATGTGCGGGTGACCCGAGCACTGCGCTGCATTTTC
CTGGTGGACTGTGCGTATTGCGGTGGCGTCCGGCGCAACCTGCGGCAGATCTTCCAGTCCCTGCCGCCCT
TCATGGACATCCTCCTGCTGCTGCTTTCATGATCATCTTGGCATCCTCGGTTTCTACTTGTCTC
CCCTAACCCCTCAGACCCTACTTCAGCACCTGGAGAACAGCATCGTCAGTCTGTTTGCCTTCTGACC
ACAGCCAATTTCCAGATGTGATGATGCCCTCCTACTCCCGGAACCCCTGGTCTGCGTCTTCTTATCG
TGTACCTCCATCGAGCTGATTTTCATCATGAACCTGCTTCTGGCTGTGGTGTTCGACACCTTCAATGA
CATTGAGAAACGCAAGTTCAAGTCTTGTCTACTGCACAAGCGAACCCTATCCAGCATGCCTACCGCCTG
CTCATCAGCCAGAGGAGGCTGCCGGCATCTCCTACAGGCAGTTTGAAGGCCATGCGCTTCTACAAGC
CCCGGATGAGTGCCAGGGAGCGCTATCTTACCTTCAAGGCCCTGAATCAGAAACAACACCCCTGCTCAG
CCTAAAGGACTTTTACGATATCTACGAAGTTGCTGCTTGAAGTGAAGGCCAAGAAAAACAGAGAGCAC
TGGTTTGTGATGAGCTTCCAGGACGGCGCTCCTCATCTTCAAAGGTATTAATATCCTTGTGAAGTCCAAGG
CCTTCCAGTATTTATGACTTGGTGGTGGCAGTCAACGGGGTCTGGATCCTCGTGGAGACATTTATGCT
GAAAGTGGAAGTCTTCTCCAAGCACGTGCCCTGGAGTTACCTCGTCTTCTAACTATCTATGGGGTG
GAGCTGTTCTGAAGTTGCCGGCTGGGCCCTGTGGAGTACTGTCTTCCGGATGGAACCTGTTTGTACT
TCTCCGTGACAGTGTTCGCCTTCTGGACTGCTGGCGCTGGCCCTCAACATGGAGCCCTTCTATTTTCAT
CGTGGTCTGCGCCCCCTCCAGCTGCTGAGGTTGTTAAGTTGAAGGAGCGCTACCGCAACGTGCTGGAC
ACCATGTTGAGCTGCTGCCCGGATGGCCAGCCTGGGCCTCACCTGCTCATCTTTTACTACTCTTTCG
CCATCGTGGGCATGGAGTTCTTCTGCGGGATCGTCTTCCCAACTGCTGCAACACGAGTACAGTGGCAGA
TGCCTACCGCTGGCGCAACCACACCGTGGGCAACAGGACCGTGGTGGAGGAAGGCTACTATTATCTCAAT
AATTTTGACAACATCCTCAACAGCTTTGTACCCTGTTTGTGAGCTCACAGTTGTCAACAACGGTACATCA
TCATGGAAGGCGTCACCTCTCAGACCTCCCACTGGAGCCGCTCTACTTCATGACCTTTTACATTGTGAC
CATGGTGGTGTGACGATCATTGTGCCTTTATCCTCGAGGCCTTCGTCTTCCGAATGAACTACAGCCGC
AAGAACCAGGACTCGGAAGTTGATGGTGGCATACCCTTGAGAAGGAAATCTCCAAGAAGAGCTGGTTG
CCGTCCTGGAGCTTACCAGGAGGCACGGGGGCTCCTCGGATGTCACCAGGCTGCTGGAGACCCTCTC
CCAGATGGAGAGATACCAGCAACATTCCATGGTGTTCCTGGGACGGCGATCAAGGACCAAGAGCGACCTG
AGCCTGAAGATGTACCAGGAGGAGATCCAGGAGTGGTATGAGGAGCATGCCAGGGAGCAAGAGCAGCAGC
GACAACTCAGCAGAGTGCAGCCCCCGCCAGCAGCCCCAGGCAGCCGCCAGCGCTCCAGACCGT
TACCTAG
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001301214

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001301214.1, NP_001288143.1</u>
<b>RefSeq Size:</b>	5071 bp
<b>RefSeq ORF:</b>	2247 bp
<b>Locus ID:</b>	53373
<b>UniProt ID:</b>	<u>Q9ULQ1</u>
<b>Cytogenetics:</b>	12q24.13
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>Gene Summary:</b>	<p>Voltage-gated Ca<sup>2+</sup> and Na<sup>+</sup> 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 (3) 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 (3) has a shorter N-terminus compared to isoform 1. Variants 3, 4, and 5 all encode the same isoform (3).</p>