

## Product datasheet for **SC124239**

### TPCN1 (AK093490) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TPCN1 (AK093490) Human Untagged Clone
Tag:	Tag Free
Symbol:	TPCN1
Synonyms:	TPC1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC124239 sequence for AK093490 edited (data generated by NextGen Sequencing)

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ATGGCTGTGAGTTTGGATGACGACGTGCCGCTCATCTGACCTTGGATGAGGGTGGCAGT
GCCCCACTGGCTCCTTCCAACGGCTGGGCAAGAAGAGCTACCTAGCAAAAATGGCGGC
AGCTATGCCATCCAGACTCCCAGGCCCCAGTCTCAGCTCTGGGGTGAGAGTTCCCC
TCCAGCCCCGCACACAACACTGGGAGATGAATTACCAAGAGGCAGCAATCTACCTCCAGGAA
GGCGAGAACAACGACAAGTTCTTACCCACCCCAAGGATGCCAAGGCGCTGGCGGCTAC
CTTTTGACACAATCACCTCTTCTACCTGATGGAGCTGGCCACGGCCCTGCTGCTGCTG
CTGCTCTCCCTGTGCGAGGCCCGCCGCTCCCGCACTCCGGCTTGGCATCTATGTCAC
GCCACCTGGAGCTGTTTGCCTGATGGTGGTAGTGTGTTGAACTCTGCATGAAGTTACGC
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GTGGTGCAGTTTGTGAGGCCATCGTGGTGTGGTACGGCAGATGTCCATGTGCGGGTG
ACCCGAGCACTGCGCTGCATTTTCTGGTGGACTGTGGTATTGCGGTGGCGTCCGGCGC
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GCTATCCAGCATGCCTACCGCTGCTCATCAGCCAGAGGAGGCCGTCGCCGCATCTCTAC
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CTTACCTCAAGGCCCTGAATCAGAACAACACCCCTGCTCAGCCTAAAGGACTTTTAC
GATATCTACGAAGTTGCTGCTTTGAAGTGAAGGCCAAGAAAAACAGAGACACTGGTTT
GATGAGCTTCCCAGGACGGCGCTCCTCATCTTCAAAGGATTAATATCCTTGTGAAGTCC
AAGGCCTTCCAGTATTTATGTACTTGGTGGTGGCAGTCAACGGGGTCTGGATCCTCGTG
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GGACTGCTGGCGCTGGCCCTCAACATGGAGCCCTTCTATTTATCGTGGTCTGCGCCCC
CTCCAGCTGCTGAGTTGTTAAGTTGAAGGAGCGCTACCGCAACGTGCTGGACACCATG
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TTCGCCATCGTGGGCATGGAGTTCTTCTGCGGGATCGTCTTCCCAACTGCTGCAACACG
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TTTGAGCTCACAGTTGTCAACAACCTGGTACATCATGGAAGGCGTCACCTCTCAGACC
TCCCCTGGAGCCGCTTACTTTCATGACCTTTTACATTTGACCATGGTGGTGTGACG
ATCATTGTGCGCTTTATCCTCGAGGCCCTTCGTCTTCCGAATGAACTACAGCCGCAAGAAC
CAGGACTCGGAAGTTGATGGTGGCATCACCTTGAGAAGGAAATCTCAAAGAAGAGCTG
GTTGCCGTCTGGAGCTTACCAGGAGGACGGGGGCTCCTCGGATGTCACAGGCTG
CTGGAGACCCTCTCCAGATGGAGAGATACCAGCAACATTCATGGTGTCTGGGACGG
CGATCAAGGACCAAGAGCGACCTGAGCCTGAAGATGTACCAGGAGGAGATCCAGGAGTGG
TATGAGGAGCATGCCAGGGAGCAAGAGCAGCAGCGACAACCTCAGCAGCAGTGCAGCCCC
GCCGCCAGCAGCCCCAGGCAGCCGACGCTCCAGACCGTTACCTAG
    
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Clone variation with respect to AK093490.1  
 21 t=>c;75 c=>t;918 c=>t;1105 c=>t;1203 c=>t

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AK093490 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCAGCTGCCCTGGTGGCA GTGGCTGAAGTGGCGGGCGCTTCGGCGGCTGCGGCGGCTGCAACAGCTTCGGGCTCGGGG TTTTGGCGGGCGCGCGGGCGGGCTAGGCTGCGCGGTGCGGACCCCGCGCGGTCCGGG TTGCTGGGGCGGGCGCGTAGATGGAGTCTTGCTACATTGCCAGGCTGGTCTTGAAGTGT AGGCTCAAGCAGTTCTCCACCTTGACCTCCCAAAGCGCTGAGATTACAGAAGATGCCTC TAATGGAGGAGTTTCTGAGCAGCACCCCTGGCCAGTGGCTTTGAAAGGGAGCTCAAACC AGAGACTATTTCAAGCCCTGGATATCATATCCTGAGGGCCACAGGAGAAGAGAACATGGC TGTGAGTTTGGATGACGACGTGCCGCTCATCCTGACCTTGGATGAGGGTGGCAGTGCCCC ACTGGCTCCTTCCAACGGCTGGGCCAAGAAGAGCTACCTAGCANAAATGGCGGCAGCTA TGCCATTACGACTNCCCAGCCCCAGTCTCAGCTCTGGGGTGAAGAGTTCCCCCTTCA GCCCCGNCAAAACGGGAAAGAAATCCCAGAGGCCGATTCTACCTCCCGAAGGGG AAAAACCCGACAGTTTTTCTCCCCCCCCAGGGAGCCAAGGGGCTTGGGGGCTCACCTT TTTGGACAAAAAACCTTTTTTACTTGGGAAAATGGGCCCGCCCCGGGGGGGGGGG GGTCTCCCTTGGGGGGGGCCCCGGGCCCCCAAAATGGGGGTGGGGTTTTTTTTTCC CCCCCCCCCCTACAANTTTTTCCCTCCGGTGGGGGGGGGTGTAACCTCCCTAAAA AAACCCCGCGCCGCCCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK093490
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<a href="#">AK093490.1</a> , <a href="#">BAG52729.1</a>
<b>RefSeq Size:</b>	2817 bp
<b>RefSeq ORF:</b>	2817 bp
<b>Locus ID:</b>	53373
<b>Cytogenetics:</b>	12q24.13
<b>Domains:</b>	ion_trans
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane

**Gene Summary:**

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]