

Product datasheet for **RG239469**

TPCN1 (NM_001301214) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPCN1 (NM_001301214) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TPCN1
Synonyms:	TPC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG239469 representing NM_001301214.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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ATGAATTACCAAGAGGCAGCAATCTACCTCCAGGAAGGCGAGAACAACGACAAGTCTTCCACCCACCCC
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GAGGAGCATGCCAGGGAGCAAGAGCAGCAGCGACAACCTCAGCAGCAGTGCAGCCCCCGCCGACGAGC
CCCCAGGCAGCCGCGAGCGTCCAGACCGTTACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239469
 Blue=ORF Red=Cloning site Green=Tag(s)

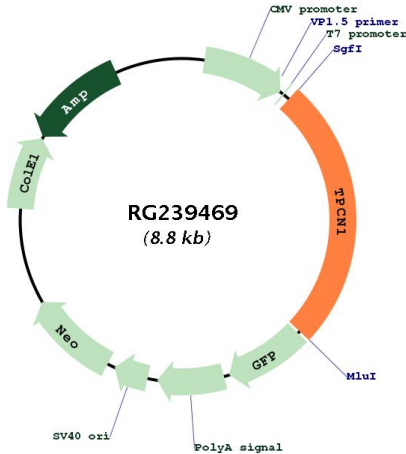
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 IFLVDCRYCGGVRRLRQIFQSLPPFMDILLFFMIIFAILGFYLFSPNPSDPYFSTLENSIVSLFV
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Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301214

ORF Size: 2244 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).

RefSeq: [NM_001301214.1](#), [NP_001288143.1](#)

RefSeq Size: 5071 bp

RefSeq ORF: 2247 bp

Locus ID: 53373

UniProt ID: [Q9ULQ1](#)

Cytogenetics: 12q24.13

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

MW: 87.8 kDa

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]