

Product datasheet for **RC213190**

TPCN1 (NM_017901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPCN1 (NM_017901) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TPCN1
Synonyms:	TPC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC213190 representing NM_017901.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
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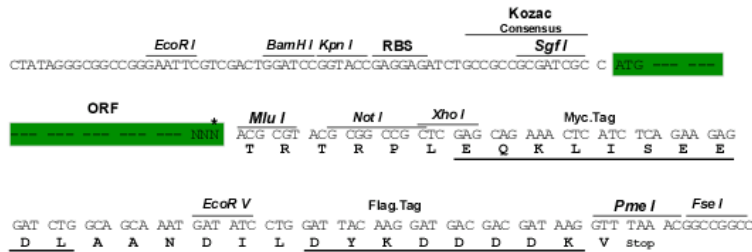
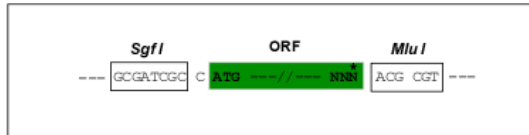
Protein Sequence: >Peptide sequence encoded by RC213190
 Blue=ORF Red=Cloning site Green=Tag(s)

MAVSLDDDDVPLILTLDEGGSAPLAPSNGLQEELPSKNGGSYAIHDSQAPSLSSGGESSPSSPAHNWEM
 NYQEAAIYLQEGENNDKFFTHPKDAKALAAFLFAHNHLFYLMEALATALLLLLLSLCEAPAVPALRLGIY
 VHATLELFLMVFVVELCMKLRWLGHTFIRHKRTMVKTSVLVQFVEAIVLVRQMSHVRVTRALRCI
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 LTTANFPDVMMPYSYRNPWSCVFFIVYLSIELYFIMNLLAVVFDTFNDIEKRKFKSLLLHKRTAIQHA
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 NREHWFDELPRTALLIFKGINILVKSFAFYFMYLVAVNGVWILVETFMKGGNFFSKHVPWSYLVFL
 TIYGVFLFKVAGLGPVEYLSGWNLDFSVTVFAFLGLLALALNMEPFYFIVLRLQLLRLFKLKER
 YRNVLDTMFELLPRMASLGLTLLIFYYSFAIVGMEFFCGIVFPNCNTSTVADAYRWRNHTVGNRTVVE
 EGYYYLNNFDNILNSFVTLFELTVVNNWYIIMEGVTSQTSWSRLYFMTFYIVTMVMTIIVAFILEAF
 VFRMNYSRKNQDSEVDGGITLKEISKEELVAVLELYREARGASSDVTRLLETLSQMERYQQHSMVFLG
 RRSRTKSDLKMYQEEIQEWYEEHAREQEQQRLSSSAAPAAQPPGSRQRSQTVT
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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



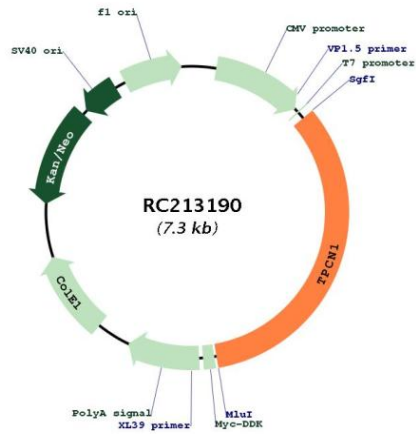
* The last codon before the Stop codon of the ORF

ACCN: NM_017901

ORF Size: 2448 bp

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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</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:	NM_017901.6
RefSeq Size:	5396 bp
RefSeq ORF:	2451 bp
Locus ID:	53373
UniProt ID:	Q9ULQ1
Cytogenetics:	12q24.13
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
MW:	94.1 kDa
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>

Product images:



Circular map for RC213190