

Product datasheet for **SC122042**

Two pore calcium channel protein 2 (TPCN2) (NM_139075) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Two pore calcium channel protein 2 (TPCN2) (NM_139075) Human Untagged Clone
Tag:	Tag Free
Symbol:	Two pore calcium channel protein 2
Synonyms:	SHEP10; TPC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC122042 representing NM_139075.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGAACCCAGGCGGAGTCGGAGCCCTGCTGGGCGGGCCCGCGCGGTGGCGGCGACTGGCCG
GCGGGGCTGACCACTTACCGCAGCATCCAAGTCGGCCCTGGTGCCGCGCCAGGTGGACCTCTGCATT
GATCAGGCTGTGGTCTTTCATCGAAGATGCTATTACAGTACCGCTCCATCAACCACCGGTGGATGCCAGC
TCGATGTGGCTTTACCGACGGTATTACTCGAACGTATGCCAACGACTTTGAGCTTACCATCTTCTTG
ATCCTGTTTTGGCTTTTATCGAGACCCATCCTCACTACCAGCACGGCGGACGTGCGCTACCGCGCT
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CTCGTGGTGTGGTGTCTCTGGTGGACTGGACCGTCCCTGAGTCTCGTGTGCATGAGCCCTG
CGGATCCGCCGGTCTCCGTCCTTCTCCTGCTGCAGAACTCCTCTATGATGAAGAAGACCTTAAA
TGCATCCGCTGGTCGCTGCCGAAATGGCCAGCGTCGGGCTGCTGCTGGCCATCCACCTGTGCCTTTC
ACCATGTTTCGGAATGCTGCTGTTTCGCTGGTGGGAAGCAGGATGATGGGCAGGACAGGAGAGGCTGACC
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CCGTGGTCCAAGATCTATTTGTATTGTGGTGGCTGGTGTGCTGCTGATCTGGTCAACCTGTTTCTG
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CCAGAGGCCACCTACCAGATGACTGTGGAGCTCCTGTTTCAGGGATATTCTGGAGGAGCCCGGGAGGAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Chromatograms: https://cdn.origene.com/chromatograms/ja2997_c01.zip

Restriction Sites: SgfI-MluI

ACCN: NM_139075

Insert Size: 2259 bp

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).
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_139075.3
RefSeq Size:	5026 bp
RefSeq ORF:	2259 bp
Locus ID:	219931
UniProt ID:	Q8NHX9
Cytogenetics:	11q13.3
Domains:	ion_trans
Protein Families:	Druggable Genome, Ion Channels: Other
MW:	85.2 kDa
Gene Summary:	This gene encodes a putative cation-selective ion channel with two repeats of a six-transmembrane-domain. The protein localizes to lysosomal membranes and enables nicotinic acid adenine dinucleotide phosphate (NAADP) -induced calcium ion release from lysosome-related stores. This ubiquitously expressed gene has elevated expression in liver and kidney. Two common nonsynonymous SNPs in this gene strongly associate with blond versus brown hair pigmentation.[provided by RefSeq, Dec 2009]