

Product datasheet for **MC227893**

Trpc7 (NM_001302373) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc7 (NM_001302373) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpc7
Synonyms:	TR; TRP7; Trrp8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227893 representing NM_001302373
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTTTGTGGCCATGCAGTGTCTTTTACCATCTTCTGGGACTGCTAGTTGTGAACGCCTCCGACC
 GGTTTGAGGGCGTTAAGACTCTGCCAATGAGACCTTCACAGACTACCCAAACAGATCTTCAGAGTGAA
 AACCCACACAGTTCTCCTGGAGCGGAGATGCTCATCATGAAGTGGGTCTTAGGAATGATCTGGTCCGAATGC
 AAGGAGATCTGGGAGGAGGGGCCGCGGGAGTACGTGCTACACTTGTGGAACCTTCTGGATTTTGGCATGC
 TGTCCATCTTCGTGGCCTCCTTCACTGCGAGGTTTATGGCTTTCCTCAAGGCCAGCGAGGCCAGCTGTA
 CGTGGACCAGTACGTGCAGGATGTAACGCTGCACAACGTCTCACTTCCACCGGAAGTGGCCTACTTCACC
 TACGCCAGGGATAAGTGGTGGCCTTCAGACCCAGATCATCTCGGAAGGGCTGTACGCCATTGCGGTTG
 TCCTCAGCTTCTCCGGATCGCCTACATCCTGCCAGCCAATGAGAGCTTCGGACCTTTCAGATCTCCCT
 GGAAGAAGTGTGAAAGACATCTCAAGTTCATGGTCATTTTTATCATGGTATTTGTGGCCTTTATGATC
 GGAATGTTCAACCTGTACTCCTACTACCGAGGTGCAAAGTACAACCCAGGTTTACCACAGTTGAAGAAA
 GCTTTAAACCTTGTGGTCCATATTTGGCTTGTCTGAGGTCACTCCTGGTGGTCTGAAATACGACCA
 CAAGTTTATCGAGAAATTTGGCTACGTGCTGTATGGGGTTATAATGTCACCATGGTGGTTGACTACTC
 AACATGCTGATAGCCATGATCAACAACCTCTATCAGGAAATCGAGGAAGACGCGGACGTGGAGTGGAAAT
 TTGCTCGAGCGAAGCTCTGGCTTTCTTACTTTGATGAAGGAAGAACTCTCCCTGCCTTTAACCTGGT
 GCCGAGCCCTAAATCCTTTTATTATCTCATAATGAGAATCAAGATGTGCCTCATAGAGCTCTGCCAATCT
 AAGGCCAAACGCTGTGAAAACGACCTGGAAATGGGCATGCTGAACTCCAAGTTCAGGAAGACTCGCTACC
 AGGCTGGCATGAGGAATTCTGAAAACCTGACAGCCAATAGCACCTTCAGCAAGCCACAGATACCAGAA
 GATCATGAAGCGGCTCATAAAGAGATACGTGCTGAAGGCCAGGTGGACAGAGAGAACGATGAAGTCAAT
 GAAGGTGAACTCAAGGAGATCAAACAAGACATCTCAAGCCTTCGCTATGAGCTCCTGGAGGAGAAGTCTC
 AGGCTACAGGAGACTGGCAGACCTGATCCAGCAGCTCAGCGAGAAGTTTGGGAAGAATCTGAACAAAGA
 CCACCTGCGGGTGAACCGGCAAGGACATT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001302373
- Insert Size:** 1434 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:

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_001302373.1](#), [NP_001289302.1](#)

RefSeq Size: 3674 bp

RefSeq ORF: 1434 bp

Locus ID: 26946

Cytogenetics: 13 B1

Gene Summary: The protein encoded by this gene is a member of the transient receptor potential channel family of proteins, which form six-transmembrane cation-permeable channels that are calcium permeant. Knock out mice are viable but display a reduction in the gamma wave activity that precedes seizure induction in response to a muscarinic agonist, suggesting a functional role for this protein in initiation of seizures. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]
Transcript Variant: This variant (3) differs in the 5' UTR and uses a downstream start codon compared to variant 1. It encodes isoform 3, which has a shorter N-terminus compared to isoform 1.