

Product datasheet for **MC229061**

Trpc7 (NM_001302372) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc7 (NM_001302372) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trpc7
Synonyms:	TR; TRP7; Trrp8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC229061 representing NM_001302372
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGGGAGCAACACCTTCAAAAACATGCGAGCGCCGGCACACCACCTTGAGGGAGAAGGGGGCCGCC
 AGGCCATCCGGGGTCTGCTACATGTTCAACGAGAAGGGCACGAGCCTGACCCCTGAGGAGGAGCGCTT
 CCTGGACTCGGCTGAGTATGGCAACATACCAGTGGTCAGAAAAATGCTGGAGGAATCCAAGACCCTCAAT
 TTCAACTGCGTGGACTACATGGGGCAGAACGCGCTGCAGCTGGCCGTGGGCAACGAGCACTTGGAGGTCA
 CTGAACTGTTGCTGAAGAAAGAGAACTTGGCGGGTGGGCGACGCGCTGCTGCTGGCCATCAGCAAGGG
 CTATGTGCGCATTGTGGAGGCCATCCTCAGCCATCCGGCCTTCGCGCAGGGCCAGCGCTGACGCTCAGC
 CCGCTGGAGCAGGAGCTGCGGGATGATGACTTCTATGCCTACGACGAGGATGGCACGCGCTTCTCCCACG
 ACATCACACCCATCATCCTGGCGGCCACTGCCAGGAGTATGAGATTGTGCATATCTTGCTGCTCAAGGG
 TGGCGCATTGAGCGGCCCATGACTACTTCTGCAAGTGAATGAGTGCACGGAGAAGCAGCGCAAGGAC
 TCCTTCAGTCACTCGCGCTCCCGGATGAATGCCTACAAAGGACTGGCCAGTGCCTGCTACCTGTCCCTAT
 CCAGTGAAGACCCTGTCCTCACTGCGCTGGAGTAAGCAACGAGTTAGCCCGACTGGCCAACATTGAGAC
 TGAATTTAAGAATGATTACAGGAAGTTATCTATGCAATGCAAGGATTTTGTGGTGGGCGTCTGGACCTG
 TGCCGAGACACAGAAGAGGTGGAAGCAATTTAAATGGCGATGTGAAGTGTGAAGTCTGGTCCGACCACC
 ACCGTCCAAGTCTGAGCCGAATCAAACCTCGCCATTAAGTACGAAGTCAAGAAGTTCGTTGCTCACCTAA
 CTGTACAGCAATTGCTTACCATGTGGTATGAAAATCTCTCAGGCTTACGGCAACAGTCTATCGCTGTG
 AAATCCTGGCTGCTTTGGAGTCTCCATAGCCCTCCCTTTCTCGCCATAGCCTATTGGATTGCTCCGT
 GCAGCAAGCTAGGACAAACCCCTGAGGACCCCTTTCATGAAGTTTGTGGCCATGCAGTGTCTTTTACCAT
 CTCTTTGGGACTGCTAGTTGTGAACGCCTCCGACCGGTTTGAGGGCGTTAAGACTCTGCCAATGAGACC
 TTCACAGACTACCCAAACAGATCTTACAGAGTAAAACACACAGTTCTCCTGGACGGAGATGCTCATCA
 TGAAGTGGTCTTAGGAATGATCTGGTCCGAATGCAAGGAGATCTGGGAGGAGGGCCGCGGGAGTACGT
 GCTACACTTGTGGAACCTTCTGGATTTTGGCATGCTGTCCATCTTCGTGGCTCCTTCACTGCGAGGTTC
 ATGGCTTCTCAAGGCCAGCGAGGCCAGCTGTACGTGGACCAGTACGTGCAGGATGTAACGCTGCACA
 ACGTCTCACTTCCACCGAAGTGGCCTACTTACCTACGCCAGGATAAGTGGTGGCCTTACAGCCCCCA
 GATCATCTCGGAAGGGCTGTACGCCATTGCGGTTGTCTCAGCTTCTCCCGGATCGCCTACATCCTGCCA
 GCCAATGAGAGCTTCGGACCTTTCAGATCTCCCTGGGAAGAAGTGTGAAAGACATCTTCAAGTTATGG
 TCAATTTTATCATGGTATTTGTGGCCTTATGATCGGAATGTTCAACCTGTACTCCTACTACCGAGGTGC
 AAAGTACAACCCAGCGTTTACCACAGTTGAAGAAAGCTTTAAAACCTTGTGTTTGGTCCATATTTGGCTT
 TCTGAGGTCACTCGGTGGTGTGAAAACGACCACAAGTTTATCGAGAATATTGGCTACGTGCTGTATG
 GGGTTTAAATGTCAACATGGTGGTGTACTACTCAACATGCTGATAGCCATGATCAACAACCTCCTATCA
 GGAAATCGAGGAAGACGCGGACGTGGAGTGGAAATTTGCTCGAGCGAAGCTCTGGCTTCTTACTTTGAT
 GAAGGAAGAACTCTCCCTGCTCCCTTAACTGGTGGCGAGCCCTAAATCCTTTTATTATCTCATAATGA
 GAATCAAGATGTCCCTCATAGAGCTCTGCCAATCTAAGGCCAAACGCTGTGAAAACCTGACAGCCAAT
 AGCACCTTCAGCAAGCCCACCAGATACCAGAAGATCATGAAGCGGCTCATAAAGAGATACGTGCTGAAGG
 CCCAGGTGGACAGAGAGAACGATGAAGTCAATGAAGTGAAGTCAAGGAGATCAAACAAGACATCTCAAG
 CCTTCGCTATGAGCTCCTGGAGGAGAAGTCTCAGGCTACAGGAGAGCTGGCAGACCTGATCCAGCAGCTC
 AGCGAGAAGTTTGGGAAGAACTGAACAAAGACCCTGCGGGTGAACCAGGGCAAGGACATT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001302372
Insert Size: 2586 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001302372.1</u> , <u>NP_001289301.1</u>
RefSeq Size:	3547 bp
RefSeq ORF:	2586 bp
Locus ID:	26946
Cytogenetics:	13 B1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1.</p>