

Product datasheet for **MR230104**

Trpc7 (NM_001302373) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR230104 representing NM_001302373
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTTTGTGGCCCATGCAGTGTCTTTTACCATCTTCTGGGACTGCTAGTTGTGAACGCTCCGACC
 GGTTTGAGGGCGTTAAGACTCTGCCAATGAGACCTTCACAGACTACCCAAACAGATCTTCAGAGTGAA
 AACACACAGTTCTCCTGGACGGAGATGCTCATCATGAAGTGGGTCTTAGGAATGATCTGGTCCGAATGC
 AAGGAGATCTGGGAGGAGGGCGCGGGAGTACGTGCTACACTTGTGGAACCTTCTGGATTTTGGCATGC
 TGTCCATCTTCGTGGCCTCCTTCACTGCGAGGTTTATGGCTTTCCTCAAGGCCAGCGAGGCCAGCTGTA
 CGTGGACCAGTACGTGCAGGATGTAACGCTGCACAACGTCTCACTTCCACCGGAAGTGGCCTACTTACC
 TACGCCAGGGATAAGTGGTGGCCTTACAGCCCCAGATCATCTCGGAAGGGCTGTACGCCATTGCGGTTG
 TCCTCAGCTTCTCCGGATCGCCTACATCCTGCCAGCCAATGAGAGCTTCGGACCTTTCAGATCTCCCT
 GGAAGAAGTGTGAAAGACATCTCAAGTTCATGGTCATTTTTATCATGGTATTTGTGGCCTTTATGATC
 GGAATGTTCAACCTGTACTCCTACTACCGAGGTGCAAAGTACAACCCAGGTTTACCACAGTTGAAGAAA
 GCTTTAAACCTTGTGGTCCATATTTGGCTTGTCTGAGGTCACTCCTGGTGGTCTGAAATACGACCA
 CAAGTTTATCGAGAAATTTGGCTACGTGCTGTATGGGGTTATAATGTCACCATGGTGGTTGTACTACTC
 AACATGCTGATAGCCATGATCAACAACCTCTATCAGGAAATCGAGGAAGACGCGGACGTGGAGTGGAAAT
 TTGCTCGAGCGAAGCTCTGGCTTTCTTACTTTGATGAAGGAAGAACTCTCCCTGCTCCCTTAACTGGT
 GCCGAGCCCTAAATCCTTTTATTATCTCATAATGAGAATCAAGATGTGCCTCATAGAGCTCTGCCAATCT
 AAGGCCAAACGCTGTGAAAACGACCTGGAATGGGCATGCTGAACTCCAAGTTCAGGAAGACTCGCTACC
 AGGCTGGCATGAGGAATCTGAAAACCTGACAGCCAATAGCACCTTCAGCAAGCCACAGATACCAGAA
 GATCATGAAGCGGCTCATAAAGAGATACGTGCTGAAGGCCAGGTGGACAGAGAGAACGATGAAGTCAAT
 GAAGGTGAACTCAAGGAGATCAAACAAGACATCTCAAGCCTTCGCTATGAGCTCCTGGAGGAGAAGTCTC
 AGGCTACAGGAGACTGGCAGACCTGATCCAGCAGCTCAGCGAGAAGTTGGGAAGAATCTGAACAAAGA
 CCACCTGCGGGTGAACAGGGCAAGGACATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230104 representing NM_001302373
 Red=Cloning site Green=Tags(s)

MKFVAHAVSFTIFLGLLVNASDRFEGVKTLPNETFDDYPKQIFRVKTTQFSWTEMLIMKWVLMGIWSEC
 KEIWEEGPREYVHLWNLDFGMLSIFVASFTARFMAFLKASEAQLYVDQYVQDVTLHNVSLLPPEVAYFT
 YARDKWWPSDPQIIEGLYAIIVLVSFRYIAYILPANESFGPLQISLGRVTKDIFKFMVIFIMVFAFMI
 GMFNLYSYRGAKNPAFTTVEESFKTLFWSIFGLSEVISVVLKYDHF IENIGYVLYGVYVNTMVVLL
 NMLIAMINNSYQEIIEADVVEWKFARAKLWLSYFDEGRTLPAFNLVPSPKSFYLLIMRIKMLIELCQS
 KAKRCENDLEMGMLNSKFRKTRYQAGMRNSENLTANSTFSKPTRYQKIMKRLIKRYVLLKQVDRENDEVN
 EGELKEIKQDISSLRYELLEESQATGELADLIQQLEKFGKNLNDHLRVNQGKDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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

MW: 56.1 kDa

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]