

## Product datasheet for **MR231272**

### Trpc7 (NM\_001302372) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc7 (NM_001302372) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide  
Sequence:

>MR231272 representing NM\_001302372  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTGGGGAGCAACACCTTCAAAAACATGCGAGCGCCGGCACACCACCTTGAGGGAGAAGGGGGCCGCC  
 AGGCCATCCGGGGTCTGCCTACATGTTCAACGAGAAGGGCACGAGCCTGACCCCTGAGGAGGAGCGCTT  
 CCTGGACTCGGCTGAGTATGGCAACATACCAGTGGTCAGAAAAATGCTGGAGGAATCCAAGACCCTCAAT  
 TTCAACTGCGTGGACTACATGGGGCAGAACGCGCTGCAGCTGGCCGTGGGCAACGAGCACTTGGAGGTCA  
 CTGAACTGTTGCTGAAGAAAGAGAACTTGGCGGGTGGGCGACGCGCTGCTGCTGGCCATCAGCAAGGG  
 CTATGTGCGCATTGTGGAGGCCATCCTCAGCCATCCGGCCTTCGCGCAGGGCCAGCGCTGACGCTCAGC  
 CCGCTGGAGCAGGAGCTGCGGGATGATGACTTCTATGCCTACGACGAGGATGGCACGCGCTTCTCCCACG  
 ACATCACACCCATCATCCTGGCGGCCACTGCCAGGAGTATGAGATTGTGCATATCTTGCTGCTCAAGGG  
 TGGCGCATTGAGCGGCCCATGACTACTTCTGCAAGTGAATGAGTGCACGGAGAAGCAGCGCAAGGAC  
 TCCTTCAGTCACTCGCGCTCCCGGATGAATGCCTACAAAGGACTGGCCAGTGGCCCTACCTGTCCCTAT  
 CCAAGTGAAGACCTGTCCTCACTGCGCTGGAGTAAGCAACGAGTTAGCCCGACTGGCCAACATTGAGAC  
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 CTGTACAGCAATTGCTTACCATGTGGTATGAAAATCTCTCAGGCTTACGGCAACAGTCTATCGCTGTG  
 AAATTCCTGGCTGCTTTGGAGTCTCCATAGCCCTCCCTTTCTCGCCATAGCCTATTGGATTGCTCCGT  
 GCAGCAAGCTAGGACAAACCTGAGGAGCCCTTTCATGAAGTTTGTGGCCATGCAGTGTCTTTTACCAT  
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 ATGGCTTCTCAAGGCCAGCGAGGCCAGCTGTACGTGGACCAGTACGTGCAGGATGTAACGCTGCACA  
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 GCCAATGAGAGCTTCGGACCTTTCAGATCTCCCTGGGAAGAAGTGTAAAGACATCTTCAAGTTCATGG  
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 AGCGAGAAGTTTGGGAAGAACTGAACAAAGACCCTGCGGGTGAACCAGGGCAAGGACATT

**ACGGT**ACGGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231272 representing NM\_001302372  
 Red=Cloning site Green=Tags(s)

MLGSNTFKNMQRHHTTLREKGRRAIRGPAYMFNEKGTSLTPEEERFLDSA EYGNIPVVRKMLEESKTLN  
 FNCVDYMGQNALQLAVGNEHLEVTELLKKNLARVGDALLLAISKGYRIVEAILSHPAFAQQQLTSL  
 PLEQELRDDDFYAYDEDGTRFSHDITPIILAAHCQEYEVHILLKLGARIERPHDYFCCKNECTEKQRKD  
 SFSHSRMRMAYKGLASAAAYLSLSEDPVLTALEL SNELARLANIETEFKNDYRKL SMQCKDFVGVLDL  
 CRDTEEVEAILNGDVNLQVWSDHHRPSLSRIKLAIKYEVKFFVAHPNCQQQLTMWYENLSGLRQQSIAY  
 KFLAVFGVSIPLFLAIAYWIAPCSKLGQTLRSPFMKFVAHAVSFIFLGLLVVNASDRFEGVKTLPNET  
 FTDYPKQIFRVKTTQFSWTEMLIMKWVLMIWSECKEIWEEGPREYVHLWNLDFGMLSIFVASFTARF  
 MAFLKASEAQLYVDQYVQDVTLHNVS LPPEVAYFTYARDKWWPDPQII SEGLYAI AVL SF SRIAYILP  
 ANESFGPLQISLGRVTKDIFKFMVIFIMVFAFMIGMFNLSYYRGAKYNPAFTTVEESFKTLFWSIFGL  
 SEVISVVLKYDHKFIENIGYVLYGVYVNTMVVLLNMLIAMINNSYQIEEDADVEWK FARAKLWLSYFD  
 EGRTLPAFNLVPSPKSFYYLIMRIKMLIELCQSKAKRCENDLEMGLNSKFRTRYQAGMRNSENLTAN  
 STF SKPTRYQKIMKRLIKRYVLKAQVDRENDEVNEGELKEIKQDISSLRVELLEEK SQATGELADLIQQL  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

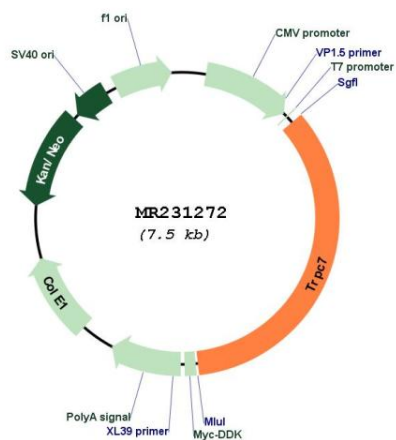
Sgfl-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_001302372
<b>ORF Size:</b>	2583 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001302372.1</a> , <a href="#">NP_001289301.1</a>
<b>RefSeq Size:</b>	3547 bp
<b>RefSeq ORF:</b>	2586 bp
<b>Locus ID:</b>	26946
<b>Cytogenetics:</b>	13 B1
<b>MW:</b>	99.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR231272