

Product datasheet for **MR225262**

Trpc7 (NM_012035) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc7 (NM_012035) 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:

>MR225262 representing NM_012035
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGGGAGCAACACCTTCAAAAACATGCAGCGCCGGCACACCACCTTGAGGGAGAAGGGGGCCGCC
 AGGCCATCCGGGGTCTGCCTACATGTTCAACGAGAAGGGCACGAGCCTGACCCCTGAGGAGGAGCGCTT
 CCTGGACTCGGCTGAGTATGGCAACATACCAGTGGTCAGAAAAATGCTGGAGGAATCCAAGACCCTCAAT
 TTCAACTGCGTGGACTACATGGGGCAGAACGCGCTGCAGCTGGCCGTGGGCAACGAGCACTTGGAGGTCA
 CTGAACTGTTGCTGAAGAAAGAGAACTTGGCGGGTGGGCGACGCGCTGCTGCTGGCCATCAGCAAGGG
 CTATGTGCGCATTGTGGAGGCCATCCTCAGCCATCCGGCCTTCGCGCAGGGCCAGCGCTGACGCTCAGC
 CCGCTGGAGCAGGAGCTGCGGGATGATGACTTCTATGCCTACGACGAGGATGGCACGCGCTTCTCCCACG
 ACATCACACCCATCATCCTGGCGGCCACTGCCAGGAGTATGAGATTGTGCATATCTTGCTGCTCAAGGG
 TGGCGCATTGAGCGGCCCATGACTACTTCTGCAAGTGAATGAGTGCACGGAGAAGCAGCGCAAGGAC
 TCCTTCAGTCACTCGCGCTCCCGGATGAATGCCTACAAAGGACTGGCCAGTGCCTGCTACCTGTCCCTAT
 CCAAGTGAAGACCCTGTCCTCACTGCGCTGGAGTAAGCAACGAGTTAGCCCGACTGGCCAACATTGAGAC
 TGAATTTAAGAATGATTACAGGAAGTTATCTATGCAATGCAAGGATTTTGTGGTGGGCGTCTGGACCTG
 TGCCGAGACACAGAAGAGGTGGAAGCAATTTAAATGGCGATGTGAAGTGTGAAGTCTGGTCCGACCACC
 ACCGTCCAAGTCTGAGCCGAATCAAACCTCGCCATTAAGTACGAAGTCAAGAAGTTCGTTGCTCACCTAA
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 GCAGCAAGCTAGGACAAACCCCTGAGGAGCCCTTTCATGAAGTTTGTGGCCATGCAGTGTCTTTTACCAT
 CTTCTTGGGACTGCTAGTTGTGAACGCCTCCGACCGGTTTGAGGGCGTTAAGACTCTGCCAATGAGACC
 TTCACAGACTACCCAAACAGATCTTCAGAGTGAAAACACACAGTTCTCCTGGACGGAGATGCTCATCA
 TGAAGTGGTCTTAGGAATGATCTGGTCCGAATGCAAGGAGATCTGGGAGGAGGGCCGCGGGAGTACGT
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 ATGGCTTCTCAAGGCCAGCGAGGCCAGCTGTACGTGGACCAGTACGTGCAGGATGTAACGCTGCACA
 ACGTCTCACTTCCACCGAAGTGGCCTACTTACCTACGCCAGGATAAGTGGTGGCCTTCAGACCCCCA
 GATCATCTCGAAGGGCTGTACGCCATTGCGGTTGTCTCAGCTTCTCCCGGATCGCCTACATCCTGCCA
 GCCAATGAGAGCTTCGGACCTTTCAGATCTCCCTGGGAAGAACTGTGAAAGACATCTTCAAGTTCATGG
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 AATAGCACCTTCAGCAAGCCACCAGATACCAGAAGATCATGAAGCGGCTCATAAAGAGATACGTGCTGA
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 AAGCCTTCGCTATGAGCTCCTGGAGGAGAAGTCTCAGGCTACAGGAGAGCTGGCAGACCTGATCCAGCAG
 CTCAGCGAGAAGTTGGGAAGAATCTGAACAAAGACCCTGCGGGTGAACCAGGGCAAGGACATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225262 representing NM_012035
 Red=Cloning site Green=Tags(s)

MLGSNTFKNMQRHHTTLREKGRRAIRGPAYMFNEKGTSLTPEEERFLDSA EYGNIPVVRKMLEESKTLN
 FNCVDYMGQNALQLAVGNEHLEVTELLKKNLARVGDALLLAISKGYRIVEAILSHPAFAQGQRLTSL
 PLEQELRDDDFYAYDEDGTRFSDITPIILAAHCQEYEVHILLKLGARIERPHDYFCKCNECTEKQRKD
 SFSHSRMRMAYKGLASAAAYLSLSEDPVLTALEL SNELARLANIETEFKNDYRKL SMQCKDFVGVLDL
 CRDTEEVEAILNGDVNLQVSDHHRPSLSRIKLAIKYEVKFFVAHPNCQQQLTMWYENLSGLRQQSIAY
 KFLAVFGVSIPLFLAIAYWIAPCSKLGQTLRSPFMKFVAHAVSFITFLGLLVFNASDRFEGVKTLPNET
 FTDYPKQIFRVKTTQFSWTEMLIMKWVLMIWSECKEIWEEGPREYVHLWNLDFGMLSIFVASFTARF
 MAFLKASEAQLYVDQYVQDVTLHNVS LPPEVAYFTYARDKWWPDPQII SEGLYAI AVVLSFSRIAYILP
 ANESFGPLQISLGRVTKDIFKFMVIFIMVFAFMIGMFNLSYYRGAKYNPAFTTVEESFKTLFWSIFGL
 SEVISVVLKYDHKFIENIGYVLYGVYVNTM VVLLNMLIAMINNSYQEI EEDADVEWK FARAKLWLSYFD
 EGRTLPAFNLVPSPKSFYYLIMRIKMLIELCQSKAKRCENDLEMGLNSKFRKTRYQAGMRNSENLT
 NSTFSKPTRYQKIMKRLIKRYV LKAQVDRENDEVNEGELKEIKQDISSLRYELLEEK SQATGELADLIQQ
 LSEKFGKLNKDHRLRVNQKDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

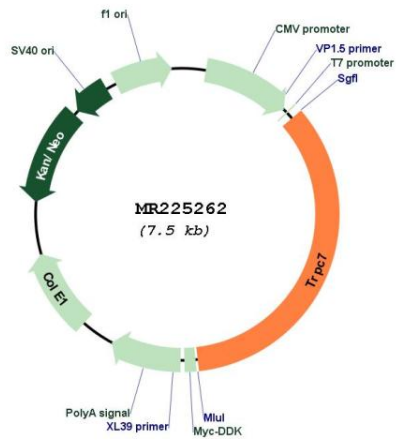
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_012035
ORF Size:	2583 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_012035.3 , NP_036165.1
RefSeq Size:	3550 bp
RefSeq ORF:	2589 bp
Locus ID:	26946
UniProt ID:	Q9WVC5
Cytogenetics:	13 B1
MW:	99.5 kDa
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>

Product images:



Circular map for MR225262