

Product datasheet for **RR217703**

Trpm7 (NM_053705) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trpm7 (NM_053705) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Trpm7
Synonyms: Chak; LTrpC-7; Ltrpc7; Trp-plik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR217703 representing NM_053705
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCAGAAATCCTGGATAGAGAGCACCTTGACCAAGAGGGAGTGTGTATATTATACCAAGCTCCA
AAGACCCTCACAGATGTCTCCAGGATGCAGATTTGTCAGCAACTTGTGAGATGTTCTGTGGTCTGTT
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Protein Sequence:

>RR217703 representing NM_053705
 Red=Cloning site Green=Tags(s)

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 GGMQKFELHPRIKQLLKGKLIKAAVTTGAWILTGGVNTGVAKHVGDALKEHASRSTRKICTIGIAPWGV
 ENRNDLVGRDVPVAPYQTLNPLSKLNLVNLHSHFILVDDGTGKYGAEVRLRRELEKTINQRIHARIG
 QGVPVVALIFEGGPNVILTVLEYLQESPPVPPVCEGTGRAADLLAYIHKQTEEGNLPDAAEPDIISTI
 KKTFFNGQSEAVHLFQTMMECKKKELITVFHIGSEHDQIDVAILTALLKGTNASAFDQLILTLAWDRV
 DIAKNHVFVYQQWLVGSLEQAMLDALVMDRVSFVKLLIENGVSMMHKFLTIPRLEELYNKQGPNTMPLF
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 ITRKFYAFYHAPIVKFWFNTLAYLGFMLLYTFVVLVQMEQLPSVQEWIVIAYIFTYAIKIREVFMSEAG
 KISQKIKVWFSDYFNVSDTIAIISFFVGFGLRFGAKWNYINAYDNHVFVAGRLIYCLNIIFFWYVRLDFL
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 LKHVGAAGYNECHKTPSLHSEQESRRASTEDSPDVSRAALLPDWLRDRPTNREMPSEGTLNGLAS
 PFKPVLDTNYYYSAVERNLMRLSQSIPFVPPRGPVTVYRLEESSPSILNNSMSSWSQLGLCAKIEF
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 LTFAFNQMKPKSIPYSPRFLVFLLYCHSAGQWFAVEECMTGEFRKYNNNGDEIIPNTLEEIMLAFSH
 WTYEYTRGELLVLDLQGVGENLTDPSVIKAEKRSMDVMFGPANLGEDAIKNFRKHHHCNCCRKLKLPD
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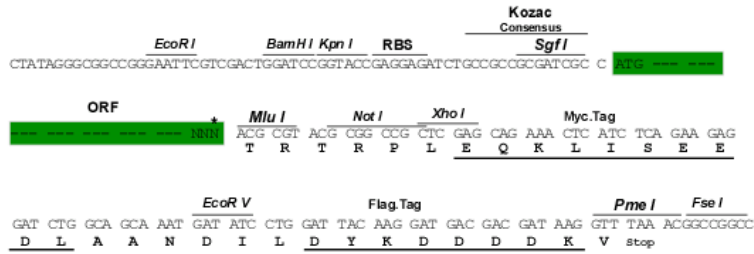
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

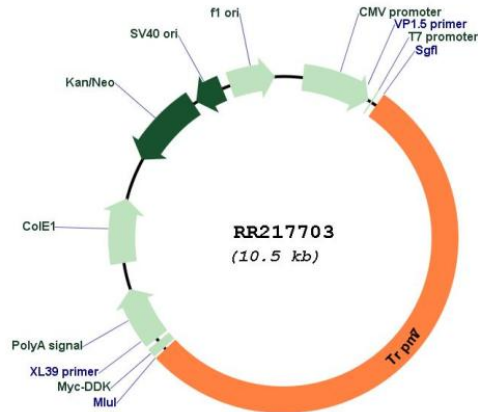
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_053705

ORF Size: 5586 bp

OTI Disclaimer:	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
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_053705.2 , NP_446157.2
RefSeq Size:	7118 bp
RefSeq ORF:	5589 bp
Locus ID:	679906
Cytogenetics:	3q36
MW:	212.4 kDa
Gene Summary:	dual function transmembrane protein; functions as both a calcium-permeant ion channel and serine/threonine protein kinase; implicated in the control of cell division [RGD, Feb 2006]