

Product datasheet for **RR203184**

Trpc5 (NM_080898) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc5 (NM_080898) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpc5
Synonyms:	Trrp5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR203184 representing NM_080898
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAGCTGTACTACAAGAAGTCACTACTCACCATACAGAGACCGCATCCCCCTCCAATCGTGA
 GGGCTGAGACTGAGCTGTCTGCTGAGGAGAAAGCTTTCCTTAGTGCTGTGGAGAAGGGGACTATGCCAC
 CGTGAAGCAGGCACTGCAGGAGGCCGAGATCTACTACAATGTCAACATCAACTGCATGGATCCTTTGGGC
 AGGAGCGCCCTACTCATTGCCATTGAGAATGAGAACTTAGAGATCATGGAGCTACTGCTGAACCACAGTG
 TGTATGTGGGCGATGCATTACTCTATGCCATCCGCAAGGAGGTGGTAGGAGCTGTGGAACCTCTGCTCAG
 CTACAGGAAGCCAAGTGGAGAGAAGCAGGTTCCCACTCTGATGATGGACACCCAGTTCCTCTGAGTTCACA
 CCAGACATCACACCCATCATGTTGGCAGCCACACCAACAATATGAAATCATCAAATTGCTTGCCAAA
 AGCGTGTCACTATCCCACGGCCCCACAAATCCGCTGCAACTGTGTGGAGTGTGTGCCAGTTCAGAAGT
 AGACAGCCTACGTCATTCAAGTCCCGACTGAACATATACAAGGCACTGGCAAGCCCTTCGCTCATCGCC
 TTATCAAGTGAGGACCCTATCCTCACAGCATTCCGGCTGGGCTGGGAACCAAGGAGCTGAGCAAGGTGG
 AAAATGAGTTC AAGGCTGAGTATGAGGAGCTCTCCAACAGTGT AAGCTCTTTGCCAAGGACCTGCTGGA
 TCAAGCTCGGAGCTCCCGAGAAGTGGAGATCATTCTCAACCATCGAGATGACCACAGCGAAGAAGTGGAC
 CCACAGAAGTACCATGACCTGGCCAAGCTGAAGGTGGCAATCAAATATCACCCAGAAAAGAGTTTGTGCTC
 AGCCAACTGTCAACAATTGCTGGCCACCTTGTGGTACGATGGCTTCCCTGGATGGCGAAGAAAACACTG
 GGTAGTCAAGCTTCAACCTGCATGACCATTGGATTCTGTTCCTATGCTGTCCATAGCCTATCTGATC
 TCACCCAGAAGCAACCTTGGGCTTTTCATCAAGAAACCTTTATCAAGTTCATCTGCCACACAGCATCCT
 ATCTGACCTTCTCTTTCATGCTTCTCTGGCTTCTCAGCATATTGTCAGAACAGACCTCCATGTTTCAAGG
 ACCTCCCCCAACTGTCGTGGAATGGATGATACTGCCTTGGGTTCTAGGTTTCATCTGGGGGAAATAAAG
 GAAATGTGGGATGGTGGATTCACTGAATACATCCATGATTGGTGGAAATTTGATGGATTTTGAATGAACT
 CCCTCTACCTGGCAACTATTTCTTGAAGATTGTGGCCTATGTCAAGTATAATGGTTCTCGTCCAAGGGA
 AGAATGGGAAATGTGGCACCCGACTCTGATTGCGGAAGCACTTTCGCGATATCGAACATTTTAAGTTCC
 TTGCGTCTCATATCCTTGTTCACAGCCAACTCCCACTTAGGGCCTCTGCAGATCTCCTGGGACGCATGC
 TGCTTGATATACTCAAATTTCTTTTACTACTGCCTAGTACTACTGGCTTTTGGCAACGGACTGAACCA
 GCTTTATTTTACTATGAGACCAGAGCTATTGATGAACCTAACAAGTGAAGGAAATCCGGTGTGAAAAA
 CAGAACAACGCTTCTCCAGCTCTTTGAAACCTTCAGTCACTTCTGGTCTGTGTTGGCCTTTTAA
 ACCTCTATGTTACCAATGTGAAGCCCGCATGAATTCACGGAGTTTGTGGGAGCTACTATGTTTGGGAC
 ATACAACGTCATCTCCCTGGTAGTGCTACTGAACATGCTCATTGCCATGATGAACAACCTCTACCAGCTC
 ATTGCCGACCATGCTGATATTGAGTGGAAAGTTTGGCAGAACGAAGCTCTGGATGAGTTACTTTGATGAAG
 GTGGCACCTTACCACCTCCTTTCAACATCATCCCCAGCCCCAAATCATTCTCTATCTTGGCAACTGGTT
 CAACAACACCTTCTGTCCAAGAGAGACCCCGATGGGAGACGAAGGAGGCACAACCTTGAGAAGCTTCA
 GAACGTCATGCTGACAGCCTGATCCAAAATCAACATTATCAGGAAGTTATCAGAAATCTAGTCAAGAGAT
 ATGTGGCTGCCATGATAAGAACTCGAAAACAAATGAGGGGCTAACAGAAGAAAAATTTAAGGAATTTAA
 GCAGGACATTTCCAGCTTTCGATACGAAGTACTTGACCTTGGGAAATAGAAAACATCCAAGAAGAAGC
 TTTTCCACTAGCAGCGCTGAATTCCTCAAAGGATGATACCAATGATGGCAGTGGTGGGCTCGGGCCA
 AATCTAAGAGTGTCTCTTCAATTTAGGCTGCAAGAAAAAGCCTGCCAGGGAGCACCTCTCATCAGAAC
 CATGCCAAGAGCTAGTGGTGGCCAAAGAAAGCCGAAAGCTGAGTCGTGAGGCAACCGTCTTTCATGGGT
 CCCTCTTTCAAGAACTGGGTCTCCTGTCTCCAAGTTTAAATGGTCCAGACCTCTGAACCTACTTCGGAGC
 CAATGTACACAATCTCTGATGGCATCGCACAGCAGCACTCTATGTGGCAGGACATCAGATATTCTCAGAT
 GGAGAAAGGGAAGGCAGAGGCCGTTTCGCAAAGTGAATGAACCTCAGTGGGTAGAGTTAGGTGAAATC
 CGGGGTGCTGCTCGGAGCAGTGAATGCCCTAGCCTGTTCCAGCTCTTCACTGTGCATCCGGCATCT
 GCTCCTCAAATTCGAACTTTTAGACTCATCAGAGGACGTATTTGAAACTGGGGAGAGGCCCTGTGACTT
 GCTCATGCACAAATGGGGTATGGACAGGAAGAACAAGTTACAACCTCGGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203184 representing NM_080898
 Red=Cloning site Green=Tags(s)

MAQLYYKKVNYSPYRDRIPLQIVRAETELSAEEKAFLSAVEKGDYATVKQALQEAEIYYNVNINCM DPLG
 RSALLIAIENENLEIMELLNHSVYVGDALLYAIRKEVVGAVELLLSYRKPSGEKQVPTLMMDTQFSEFT
 PDITPIMLAAHTNYYEIIKLLVQKRVTIPRPHQIRCNCVEC VSSSEVDSL RHSRSLNIYKALASPSLIA
 LSSEDPILTAFRLGWELKELSKVENEFKAEYEELSQQCKLFAKDLLDQARSSRELEIILNHRDDHSEELD
 PQKYHDLAKLKVAIKYHQKEFVAQPNCQQLLATLWYDGFPGWRRKHVVVLLTCMTIGFLFPMLSIAYLI
 SPRSNLGLFIKKPFIKFICTASYLTFLFMLLLASQHIVRTDLHVQPPPTVVEWMILPWVWLF IWGEIK
 EMWGGFTEYIHDWWNLMDFAMNSLYLATISLKIVAYVKYNGSRPREEWEMWHTLIAEALFAISNILSS
 LRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLFYFYETRAIDEPNNCKGIRCEK
 QNNAFSTLFETLQSLFWSVFGLLNLYVTNVKARHEFTFVGATMFGTYNVISLVLLNMLIAMNNSYQL
 IADHADIEWKFARTKLWMSYFDEGGTLPFFNIIPSPKSFLYLGWNFNTFCPKRDPGRRRRHNLRSFT
 ERHADSLIQNHQYQEVIRNLVKRYVAAMIRNSKTNEGLTEENFKELKQDISSFYEVLDLLGNRKHPRRS
 FSTSSAEFSQRDDTNDGSGGARAKSKSVSNL GCKKKACQGAPLIRTMPRASGAQKPKAESSGKRFSMG
 PSFKKLLGLLFSKFNGQTSPTSEPMYTI SDGIAQQHSMWQDIRYSQMEKGKAEACSQSEMNLSEVELGEI
 RGAARSSECLACSSSLHCASGICSSNSKLLDSSSEDFETWGEACDLLMHKWDGGQEEQVTRL

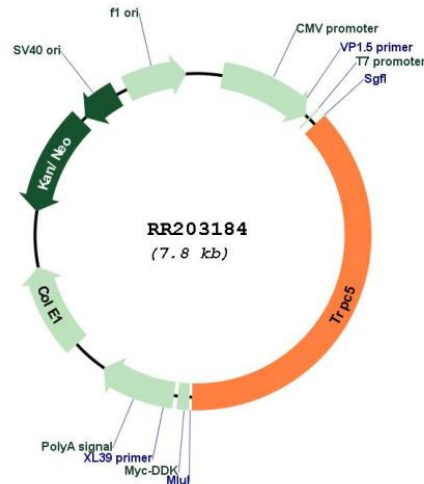
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_080898

ORF Size: 2922 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:

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_080898.2](#), [NP_543174.1](#)

RefSeq Size: 2925 bp

RefSeq ORF: 2925 bp

Locus ID: 140933

Cytogenetics: Xq34

MW: 111.4 kDa

Gene Summary: mouse homolog is a nonselective cation channel [RGD, Feb 2006]