

Product datasheet for **MG226053**

Trpc5 (NM_009428) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc5 (NM_009428) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trpc5
Synonyms:	CCE2; TRP-5; TRP5; Trrp5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG226053 representing NM_009428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCAGCTGTACTACAAGAAGTCAATTACTCACCATACAGAGATCGCATCCCCCTCCAATCGTGA
 GGGCTGAGACTGAGCTGTCTGCTGAGGAGAAAGCCTTCCTTAGTGCTGTGGAGAAGGGGACTATGCCAC
 AGTGAAGCAGGCACTGCAGGAGGCCGAGATCTACTACAATGTCAACATCAACTGCATGGATCCTTTGGG
 AGGAGCGCCCTGCTCATTGCCATTGAGAATGAGAACTGGAGATCATGGAGCTACTGCTGAACCACAGTG
 TGTATGTGGGCGATGCATTACTCTACGCCATCCGCAAGGAGGTGGTAGGAGCTGTGGAACCTCTGCTTAG
 CTACAGGAAGCCAGTGGAGAGAAGCAGGTTCCACGCTGATGATGGACACCCAGTTCTCTGAGTTCACA
 CCAGACATCACTCCATTATGTTGGCAGCCACACCAACAATGAAATCATCAAATTGCTTGCCAAA
 AGAGGGTCACTATCCCAAGGCCACCAGATCCGCTGCAACTGTGTGGAGTGTGTATCCAGTTCCGAGGT
 AGATAGTCTACGTCATTCTAGGTCGGACTGAATATATAAAGGCTCTGGCAAGCCCTCGCTCATTGCC
 TTATCAAGCGAGGACCCATCCTCACGGCTTTTCGGCTGGGCTGGGAACCAAGGAGCTGAGCAAAGTGG
 AAAATGAGTTCAAGGCTGAGTACGAGGAACCTTCCAGCAATGTAAAGCTCTTTGCCAAGGATCTCTTGG
 CCAAGCTCGGAGCTCCAGAGAACTGGAGATCATCTCAACCATCGAGATGACCACAGTGAAGAACTTGAC
 CCACAGAAGTATCATGACCTGGCCAAGCTGAAGGTGGCAATCAAATATCACAGAAAGAGTTTGTGCTC
 AGCCAACTGCCAACAATTGCTAGCCACCTTGTGGTACGATGGCTTCCCTGGATGGCGGAGAAAACACTG
 GGTAGTCAAGCTTCTGACCTGCATGACCATTGGATTCTGTTTCCATGCTGTCCATAGCCTATCTGATC
 TCACCCAGAAGCAACCTTGGGCTTTTCATCAAGAAACCTTTATTAAGTTCATCTGCCACACAGCATCCT
 ATCTGACCTTCTCTTTCATGCTTCTCTGGCTTCTCAACATATCGTCAGAACAGACCTCCATGTTCAAGG
 ACCTCCCCCAACTGTTGTGGAATGGATGATACTGCCTTGGGTTCTAGGTTTCATTTGGGGGAGATAAAG
 GAAATGTGGGATGGTGGATTACGGAATACATCCATGATTGGTGGAACTGATGGATTTTGAATGAACT
 CCCTCTACCTGGCAACTATTTCTTGAAGATCGTGGCCTATGTCAAGTATAATGGTTCTCGTCCAAGGGA
 AGAATGGGAAATGTGGCACCCGACTCTGATTGCAGAAGCACTTTCGCAATATCCAACATTTTAAGTTCC
 TTGCGTCTCATATCCTTGTTCACAGCAACTCCCATTTAGGGCTCTGCAGATCTCTTTGGGACGAATGC
 TGCTTGATATACTCAAATTTCTTTTACTACTGCCTAGTACTACTGGCTTTTGGCAACGGACTGAACCA
 GCTTTACTTTTACTATGAGACCAGAGCTATTGATGAACCTAACAAGGCAAGGGGATCCGATGTGAAAA
 CAGAACAACGCTTCTCCAGCTCTTTGAAACCTTCAGTCGCTCTTCTGGTCTGTCTTTGGCCTCTAA
 ATCTCTATGTTACCAATGTGAAGGCCGACATGAGTTCAGTTCAGTTCGAGTTCGAGTTCGAGTTCGAG
 ATACAACGTCATCTCCCTGGTAGTGTGCTGAATATGCTCATCGCCATGATGAACAACCTCTACCAGCTC
 ATTGCCGATCATGCTGATATTGAGTGGAAAGTTTGGCAGAAACAAGCTCTGGATGAGTTACTTTGATGAAG
 GTGGCACCTTACCACCTCCTTTCAACATTAATCCAGCCCAAAATCATTCTCTATCTTGGCAACTGGTT
 CAACAACACCTTCTGTCCAAAAGAGACCTGATGGAAGACGAAGGAGGCACAACCTTGAGAAGCTTCA
 GAACGTCATGCTGACAGCCTGATACAAAATCAACATTATCAGGAAGTTATCAGAAATTTAGTCAAGAGAT
 ATGTGGCTGCAATGATAAGAACTCCAAAACAATGAGGGCTAACAGAAGAAAAATTTAAGGAATTTAA
 GCAGGACATTTCCAGCTTTCGATATGAAGTCTTGACCTTTGGGAAACAGGAAACATCCAAGAAGAAGC
 CTCTCCACCAGCAGTGTGATTTCTCTCAAAGGATGATACCAATGACGGCAGTGGTGGGCTCGGGCCA
 AGTCTAAGAGTGTCTCTTCAATGTAGGCTGCAAGAAAAAGCCTGTACGGTGCACCGCTCATCAGAAC
 CGTGCCAAGAGCTAGTGGCGCCCAAGGAAAGCCAAAATCCGAGTCGTGAGCAACCGTCTTTCATGGGT
 CCGTCTTTCAAGAAATTTGGTCTCTTCTTCTCAAAGTTCAATGGTCAAACATCTGAACCTACTTCGGAGC
 CAATGTACACAATCTCTGATGGCATCGCACAGCAGCATTGTATGTGGCAGGACATCCGCTATTCTCAGAT
 GGAGAAAGGGAAGGCAGAGGCTGTTCTCAAAGTCAAGTGAACCTTGGCGAGGTAGAGCTAGGTGAAATC
 CGGGGGGCTGCTGCTCGGAGCAGTGAAGTCCCTAGCCTGTTCCAGCTCCCTTCACTGTGCATCCGGCA
 TCTGCTCCTCAAATTCGAACTTTGGACTCGTCAGAGGACGATTTGAACTTGGGAGAGGCTTGTGA
 CTTGCTCATGCACAAATGGGGTGTGGACAGGAAGAACAAGTTACAACCTCGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226053 representing NM_009428
 Red=Cloning site Green=Tags(s)

MAQLYYKKVNYSPYRDRIPLQIVRAETELSAEEKAFLSAVEKGDYATVKQALQEAEIYYNVNINCM DPLG
 RSALLIAIENENLEIMELLLNHSVYVGDALLYAIRKEVVGAVELLLSYRKPSGEKQVPTLMMDTQFSEFT
 PDITPIMLAAHTNYYEIIKLLVQKRVTIPRPHQIRCNCVECVCSSSEVDSL RHSRSLNIYKALASPSLIA
 LSSEDPILTAFRLGWELKELSKVENEFKAEYEELSQQCKLFAKDLLDQARSSRELEIILNHRDDHSEELD
 PQKYHDLAKLKVAIKYHQKEFVAQPNCQQLLATLWYDGFPGWRRKHVVVLLTCMTIGFLFPMLSIAYLI
 SPRSNLGLFIKKPFIKFICTASYLTFLFMLLLASQHIVRTDLHVQPPPTVVEWMILPWVLFIWGEIK
 EMWDGGFTEYIHDWWNLMDFAMNSLYLATISLKIVAYVKYNGSRPREEWEMWHTLIAEALFAISNILSS
 LRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLFYFYETRAIDEPNNCKGIRCEK
 QNNAFSTLFETLQSLFWSVFGLLNLYVTNVKARHEFTFVGATMFGTYNIVISLVVLLNMLIAMMNSYQL
 IADHADIEWKFARTKLWMSYFDEGGTLPFPFNIIPSPKSFLYLGWNFNTFCPKRDPGRRRRHNLRSFT
 ERHADSLIQNHQYQEVIRNLVKRYVAAMIRNSKTNEGLTEENFKELKQDISSFYEVLDLLGNRKHPRRS
 LSTSSADFQRDDTNDGSGGARAKSKSVSFNVGCKKKACHGAPLIRTVPRASGAQKPKSESSSKRFSMG
 PSFKKLG LFFSKFNGQTSEPTSEPMYTI SDGIAQQHCMWQDIRYSQMEKGAACQSQSMNLGEVELGEI
 RGAARSSECLACSSSLHCASGICSSNSKLLDSSSEDFVETWGEACDLLMHKWGDGQEEQVTTRL

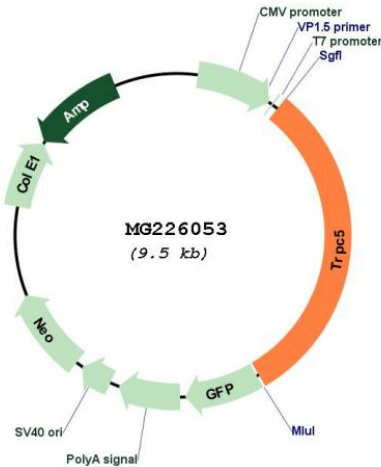
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_009428

ORF Size: 2925 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_009428.3](#)

RefSeq Size: 4158 bp

RefSeq ORF: 2928 bp

Locus ID: 22067

UniProt ID: [Q9QX29](#)

Cytogenetics: X 65.49 cM

Gene Summary: Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Has also been shown to be calcium-selective. May also be activated by intracellular calcium store depletion.[UniProtKB/Swiss-Prot Function]