

Product datasheet for **RG213238**

TRPC5 (NM_012471) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC5 (NM_012471) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRPC5
Synonyms:	PPP1R159; TRP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213238 representing NM_012471
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAACTGTACTACAAAAGGTCACTACTCACCGTACAGAGACCGCATCCCCTGCAAAATTGTGA
 GGCTGAGACAGAGCTCTCTGCAGAGGAGAAGGCCTTCTCAATGCTGTGGAGAAGGGGACTATGCCAC
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 CTACAGGGCGCCAGCGGAGAGAAGCAGGTCCCCTACTGATGATGGACACGCAGTTCTCTGAATTCACA
 CCGGACATCACTCCCATCATGCTGGCTGCCACACCAACAACCTACGAAATCATCAAATTGCTTGCCAAA
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 AGAATGAGTTCAAGGCCGAGTATGAGGAGCTCTCTCAGCAGTGAAGCTCTTTGCCAAAGACCTGCTGGA
 CCAAGCTCGGAGCTCCAGGGAAGTGGAGATCATCTCAACCATCGAGATGACCACAGTGAAGAGCTTGAC
 CCTCAGAAGTACCATGACCTGGCCAAGTTGAAGGTGGCAATCAAAACCACCAGAAAGAGTTTGTGCTC
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 GGTAGTCAAGCTTCAACCTGCATGACCATGGGTTCCGTGTTCCCATGCTGTCTATAGCCTACCTGATC
 TCACCCAGGAGCAACCTTGGGCTGTTTCAAGAAACCTTTATCAAGTTTATCTGCCACACAGCATCCT
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 GCTTCCCCAACTGTCGTGGAATGGATGATATTGCCTTGGGTTCTAGGTTTCATTTGGGGTGAATTAAG
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 TGCTTGATATCCTCAAATCCTCTTTATCTACTGCCTGGTACTACTAGCTTTTGCCAATGGACTGAACCA
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 ATTGCCGATCATGCTGATATCGAGTGGAAAGTTGCAAGGACGAAGCTCTGGATGAGTTACTTTGATGAAG
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 CAACAACACCTTCTGCCCAAAAGAGACCCTGACGGTAGACGGAGAAGGGCGCAACTTGAGAAGTTTCA
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 GAAAGGGAAAGCAGAGGCTGTTCTCAAAGTGAATTAACCTCAGTGGGTAGAATTAGGTGAAGTCCAG
 GGCCTGCTCAGAGCAGTGAATGCCCTAGCCTGTTCCAGCTCTTCACTGTGCATCCAGCATCTGCT
 CCTCAAATTTAACTTTAGACTCCTCAGAGGATGATTTGAAACTTGGGGAGAGGCTTGTGACTTGCT
 CATGCACAAATGGGTGATGGACAGGAAGAACAAGTTACAACCTCGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213238 representing NM_012471
 Red=Cloning site Green=Tags(s)

MAQLYYKKVNYSPYRDRIPLQIVRAETELSAEEKAFNAVEKGDYATVKQALQEAEIYYNVNINCM DPLG
 RSALLIAIENENLEIMELLNHSVYVGDALLYAIRKEVVGAVELLLSYRRPSGEKQVPTLMMDTQFSEFT
 PDITPIMLAAHTNYYEIIKLLVQKRVTIPRPHQIRCNCVECVCSSSEVDSL RHSRSLNIYKALASPSLIA
 LSSEDPILTAFRLGWELKELSKVENEFKAEYEELSQQCKLFAKDLLDQARSSRELEIILNHRDDHSEELD
 PQKYHDLAKLKVAIKYHQKEFVAQPNCQQLLATLWYDGFPGWRRKHVVVLLTCMTIGFLFPMLSIAYLI
 SPRSNLGLFIKKPFIKFICTASYLTFLFMLLLASQHIVRTDLHVQPPPTVVEWMILPWVLFGIWGEIK
 EMWDGGFTEYIHDWWNLMDFAMNSLYLATISLKIVAYVKYNGSRPREEWEMWHTLIAEALFAISNILSS
 LRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLFYFYETRAIDEPNNCKGIRCEK
 QNNAFSTLFETLQSLFWSVFGLLNLYVTNVKARHEFTFVGATMFGTYNIVISLVVLLNMLIAMMNSYQL
 IADHADIEWKFARTKLWMSYFDEGGTLPFPFNIIPSPKSFLYLGWNFNTFCPKRDPDGRRRRRNLR SFT
 ERNADSLIQNHQYQEVIRNLVKRYVAAMIRNSKTHEGLTEENFKELKQDISSFYEVLDLLGNRKHPRSF
 STSSTELSQRDDNNDGSGGARAKSKSVSFNLGCKKKTCHGPPLIRTMPRSSGAQGSKAESSKRSFMGP
 SLKKLGLLFSKFNHGMSEPSSEPMYITSDGIVQQHCMWQDIRYSQMEKGAEACSQSEINLSEVELGEVQ
 GAAQSSECLACSSSLHCASSICSSNSKLLDSSSEDFETWGEACDLLMHKWGDGQEEQVTRL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

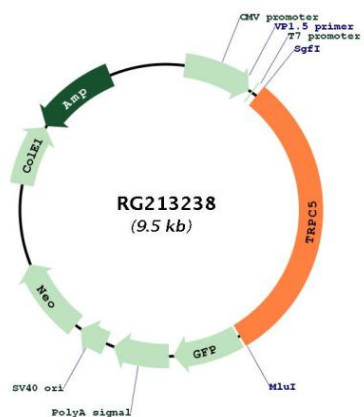


ACCN: NM_012471

ORF Size: 2919 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_012471.2
RefSeq Size:	5839 bp
RefSeq ORF:	2922 bp
Locus ID:	7224
UniProt ID:	Q9UL62
Cytogenetics:	Xq23
Domains:	ANK, ion_trans
Protein Families:	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
Gene Summary:	This gene belongs to the transient receptor family. It encodes one of the seven mammalian TRPC (transient receptor potential channel) proteins. The encoded protein is a multi-pass membrane protein and is thought to form a receptor-activated non-selective calcium permeant cation channel. The protein is active alone or as a heteromultimeric assembly with TRPC1, TRPC3, and TRPC4. It also interacts with multiple proteins including calmodulin, CABP1, enkurin, Na(+)-H+ exchange regulatory factor (NHERF), interferon-induced GTP-binding protein (MX1), ring finger protein 24 (RNF24), and SEC14 domain and spectrin repeat-containing protein 1 (SESTD1). [provided by RefSeq, May 2010]

Product images:



Circular map for RG213238