

Product datasheet for **RG226263**

TRPC3 (NM_001130698) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPC3 (NM_001130698) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRPC3
Synonyms:	SCA41; TRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226263 representing NM_001130698
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCACCAAGGTCAGGAAGTGCAAAGAACAAGCAAGGGTGACCTTCCCGCGCCGGAGGAGGAGGAAG
 ACGAGGGCGAGGACGAGGGCGCGGAGCCGACGCGCCGCCCGGGCTGGAGGGCGTCAACGGGGGCT
 GGAGCCGCGCTCGGCGCCCTCGACGCGGAGCCGACGGCTACTGCCCGCCGCCCTTCTCCACGGGCCG
 GACCTGTCCATGGAGGAAGCCATCCCTGAGACGCATGACAGTGATGCGGGAGAAGGGCCGGCCAGG
 CTGTCAAGGGCCCGCCTTCAATGTTCAATGACCGCGCACAGCCTCACCGCCGAGGAGGAGCGCTTCT
 CGACGCCCGGAGTACGGCAACATCCCAGTGGTGCGAAGATGCTGGAGGAGTCCAAGACGCTGAACGTC
 AACTGCGTGGACTACATGGGCCAGAACGCGCTGCAGCTGGCTGTGGGCAACGAGCACCTGGAGGTGACCG
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 TCAGATTATATCTGAAGGCCTTTATGCCATAGCTGTTGTGCTCAGCTTCTCTCGGATTGCGTACATCCTC
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 GAGAACTGAATCCAGCATGCTGAGATGTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226263 representing NM_001130698
 Red=Cloning site Green=Tags(s)

MSTKVRKCKEQARVTFPAPEEEEEDEGEDEGAEPQRRRRGWRGVNGGLEPRAPSQREPHGYCPPPF SHGP
 DLSMEGSPSLRRMTVMREKGRQAVRGP AFMFNDRGTSLTAEEERFLDAAEYGNIPVVRKMLEESKTLNV
 NCVDYMGQNALQLAVGNEHLEVT ELLKKENLARIGDALLLAISKGYVRIVEAILNHPGFAASKRLT LSP
 CEQELQDDDFYAYDEDTGRFSPDITPIILA AHCQKYEVVHMLLMKGARIERPHDYFCCKGDCMEKQRHDS
 FSHSRSRINAYKGLASPAYLSLSEDPVLT ALELSNELAKLANIEKEFKNDYRKL SMQCKDFVVGVL DLC
 RDSEEVEAILNGDLESAEPLEVHRHKA SL SRVLAIKYEVKVFVAHPNCQQQLLTIWYENLSGLREQTIA
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 DDGKTLPPPSLVSPSPKSFVYFIMRIVNFPKRRRRLQKDIE MGNGSKSRLNLFQTSNSRVFESHFSNS
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 EKLNPSMLRCE

TRTRPLE - GFP Tag - V

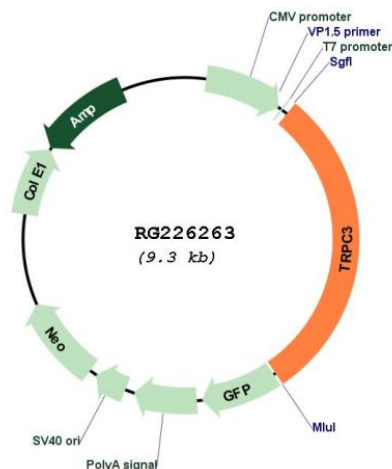
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001130698

ORF Size: 2763 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_001130698.2](#)

RefSeq Size: 3548 bp

RefSeq ORF: 2766 bp

Locus ID: 7222

UniProt ID: [Q13507](#)

Cytogenetics: 4q27

Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Gene Summary: The protein encoded by this gene is a membrane protein that can form a non-selective channel permeable to calcium and other cations. The encoded protein appears to be induced to form channels by a receptor tyrosine kinase-activated phosphatidylinositol second messenger system and also by depletion of intracellular calcium stores. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]