

Product datasheet for **MG203543**

Ttc19 (BC037111) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttc19 (BC037111) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ttc19
Synonyms:	2010204O13Rik; 2810460C24Rik; AI505442
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203543 representing BC037111 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAAGACGAGCCAGAAGCGGCCGAGCTGATTTTGCATGACGCTCTTCGCCTTGCGTATGAGAGTGACA
ACAGGAAGGCCATCACGTACCTTATGACCTGATGGCCAACTTAGCATTATACGAGGGCAGCTTGAAAA
TGCAGAACAGCTTTTAAAGCAACGATGAGTTATCTGCTTGGAGGAGGCATGAAGCAGGAAGACAATGCA
ATAATTGAAATCTCTGAAACTGGCCAACATCTATGCTGCTCAGAATAAACAGGAATTTGCCCTTGCTG
GCTATGAATTCTGCATTTCAACTCTAGAGGGGAAAATTGAAAGAGAAAAGGAATTAGCAGAAGATATTAT
GTCAGAAAGAACAGCCAATACTTACCTCCTCCTTGGTATGTGCTTAGACTCTTGTGCACGCTATCTGCTA
TTCTCCAAGCAGCTATCACAGGCACAAAGGATGTATGAAAAAGCCCTGCAGATTTGTCAAGAAATACAAG
GAGAAAGACACCCACAGACCATTTGTGCTGATGAGTGACTTGGCTACTACTCTGGATGCACAGGGCCACTT
TGATGATGCCTACATTTATATGCAGAGGGCGTCAGATCTGGCAAGAGAGATAAATCACCTGAGCTGCAC
ATGGTACTCAGCAATCTGGCTGCCATTTTGATACACAGAGAGCGATACACACAAGCAAAGGAGATCTACC
AGGAAGCGCTGAAGCGAGCAGAGCTGAAAAGAGATGAGGTTTCTGTTCAGCACATCAGGGAAGAATTGGC
TGAAGTGTCAAGAAAAAGTAGACGTTTGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


[View online »](#)

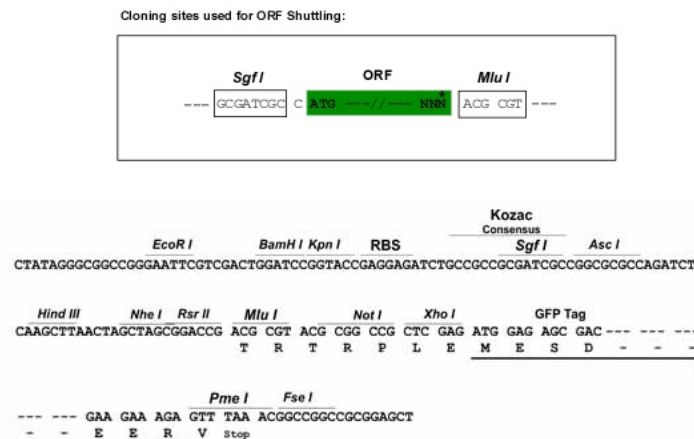
Protein Sequence: >MG203543 representing BC037111
 Red=Cloning site Green=Tags(s)

MKDEPEAAELILHDALRLAYESDNRKAITYTYDLMANLAFIRGQLENAEQLFKATMSYLLGGGMKQEDNA
 IIEISLKLANIYAAQNKQEFALAGYEFCEISTLEGKIEREKELAEIDIMSEETANTYLLGMCLDSCARYLL
 FSKQLSQAQRMYEKALQICQEIQGERHPQTIVLMSDLATTLDAQGHFDDAYIYMQRASDLAREINHPELH
 MVLSNLAAILIHRERYTQAKEIYQEALKRAELKRDEVSVQHIREELAELSRKSRRLT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC037111

ORF Size: 801 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC037111.1](#)

RefSeq Size: 2548 bp

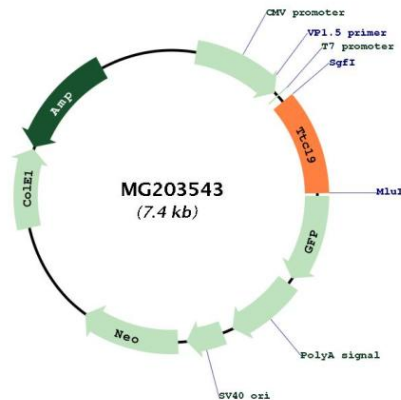
RefSeq ORF: 803 bp

Locus ID: 72795

Cytogenetics: 11 B2

Gene Summary: Required for the preservation of the structural and functional integrity of mitochondrial respiratory complex III by allowing the physiological turnover of the Rieske protein UQCRFS1 (PubMed:21278747, PubMed:28673544). Involved in the clearance of UQCRFS1 N-terminal fragments, which are produced upon incorporation into the complex III and whose presence is detrimental for its catalytic activity (PubMed:28673544).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203543