

Product datasheet for **MR203543**

Ttc19 (BC037111) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttc19 (BC037111) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ttc19
Synonyms:	2010204O13Rik; 2810460C24Rik; AI505442
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203543 representing BC037111 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAGACGAGCCAGAAGCGGCCGAGCTGATTTTGCATGACGCTCTTCGCCTTGCGTATGAGAGTGACA
 ACAGGAAGGCCATCACGTACCTTATGACCTGATGGCCAACTTAGCATTATACGAGGGCAGCTTGAAAA
 TGCAGAACAGCTTTTAAAGCAACGATGAGTTATCTGCTTGGAGGAGGCATGAAGCAGGAAGACAATGCA
 ATAATTGAAATCTCTGAAACTGGCCAACATCTATGCTGCTCAGAATAAACAGGAATTTGCCCTTGCTG
 GCTATGAATTCTGCATTTCAACTCTAGAGGGGAAAATTGAAAGAGAAAAGGAATTAGCAGAAGATATTAT
 GTCAGAAGAAACAGCCAATACTTACCTCCTCCTTGGTATGTGCTTAGACTCTTGTGCACGCTATCTGCTA
 TTCTCCAAGCAGCTATCACAGGCACAAAGGATGTATGAAAAAGCCCTGCAGATTTGTCAAGAAATACAAG
 GAGAAAGACACCCACAGACCATTTGTGCTGATGAGTGACTTGGCTACTACTCTGGATGCACAGGGCCACTT
 TGATGATGCCTACATTTATATGCAGAGGGCGTCAGATCTGGCAAGAGAGATAAATCACCTGAGCTGCAC
 ATGGTACTCAGCAATCTGGCTGCCATTTTGATACACAGAGAGCGATACACACAAGCAAAGGAGATCTACC
 AGGAAGCGCTGAAGCGAGCAGAGCTGAAAAGAGATGAGGTTTCTGTTCAGCACATCAGGGAAGATTGGC
 TGAAGTGTCAAGAAAAAGTAGACGTTTGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR203543 representing BC037111
 Red=Cloning site Green=Tags(s)

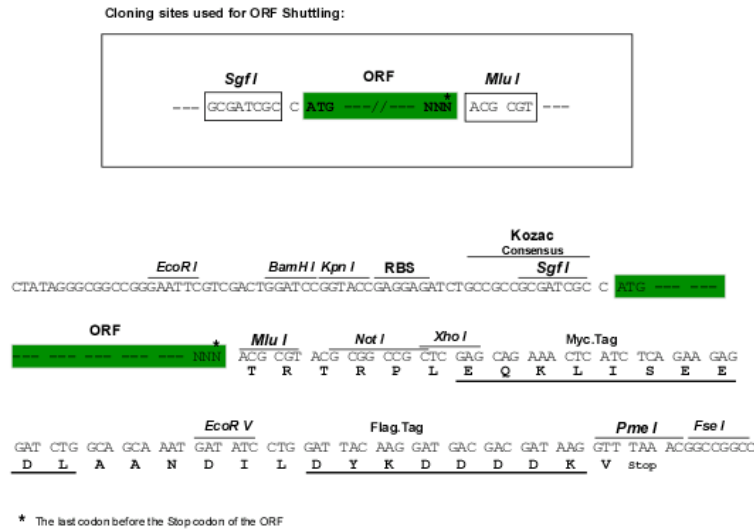
MKDEPEAAELILHDALRLAYESDNRKAITYTYDLMANLAFIRGQLENAEQLFKATMSYLLGGGMKQEDNA
 IIEISLKLANIYAAQNKQEFALAGYEFICISTLEGKIEREKELAEIDIMSEETANTYLLGMCLDSCARYLL
 FSKQLSQAQRMYEKALQICQEIQGERHPQTIVLMSDLATTLDAQGHFDDAYIYMQRASDLAREINHPELH
 MVLSNLAAILIHRERYTQAKEIYQEALKRAELKRDEVSVQHIREELAELSRKSRRLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_g07.zip

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

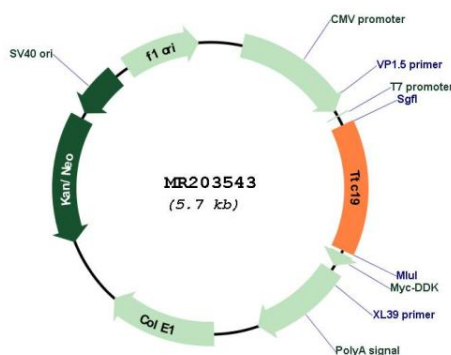
Locus ID: 72795

Cytogenetics: 11 B2

MW: 93.4 kDa

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 UQCRCF1 (PubMed:21278747, PubMed:28673544). Involved in the clearance of UQCRCF1 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 MR203543