

Product datasheet for MR220506

Ttc19 (NM_029704) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ttc19 (NM_029704) 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: >MR220506 representing NM_029704
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCCGGTTGCTTCGCTGGCGTCTGGTTCGAACCTGCTGCGGGCCGCGGGCCGGCGGTGTGGGGTT
 GTACGGCGCGCTGCTGCCGGAGCGGACGGGCGACGCGGGGACGGGCGCGGAGCGGCTGCGGACCCGAGG
 CGCGCCGGCGGGGGCACGGGGTGTGCCGCTGTTGGCAGCTCTCGCCTGGTTCTCGCACCCCGCGCC
 ACGGCCGAGCAGCCGGGAGAGGACGCGTCAGACGAGGCGGAGCCGAGATCATCCAGCTGCTGAAGCAAG
 CCAAGTTGAGCATCATGAAAGACGAGCCAGAAGCGCCGAGCTGATTTTGCATGACGCTCTTCGCCTTGC
 GTATGAGAGTGACAACAGGAAGGCCATCACGTACACTTATGACCTGGCAGAACAGCTTTTTAAAGCAACG
 ATGAGTTATCTGCTTGGAGGAGGCATGAAGCAGGAAGACAATGCAATAATTGAAATCTCTCTGAAACTGG
 CCAACATCTATGCTGCTCAGAATAAACAGGAATTTGCCCTTGCTGGCTATGAATTCTGCATTTCAACTCT
 AGAGGGGAAAATTGAAAGAGAAAAGGAATTAGCAGAAGATATTATGTCAGAAGAAAACAGCCAATACTTAC
 CTCCTCCTTGGTATGTGCTTAGACTCTTGTGCACGCTATCTGCTATTCTCAAGCAGCTATCACAGGCAC
 AAAGGATGTATGAAAAGCCCTGCAGATTTGTCAAGAAATACAAGGAGAAAGACCCACAGACCATTGT
 GCTGATGAGTGACTTGGCTACTCTGGATGCACAGGGCCACTTTGATGATGCCTACATTTATATGCAG
 AGGGCTCAGATCTGGCAAGAGAGATAAATCACCTGAGCTGCACATGGTACTCAGCAATCTGGCTGCCA
 TTTTGATACACAGAGAGCGATACACACAAGCAAAGGAGATCTACCAGGAAGCGCTGAAGCGAGCAGAGCT
 GAAAAGAGATGAGTTTCTGTTGCTCAGCACATCAGGAAGAATTGGCTGAAGTCAAGAAAAGTAGACGT
 TTGACT

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR220506 representing NM_029704
Red=Cloning site Green=Tags(s)

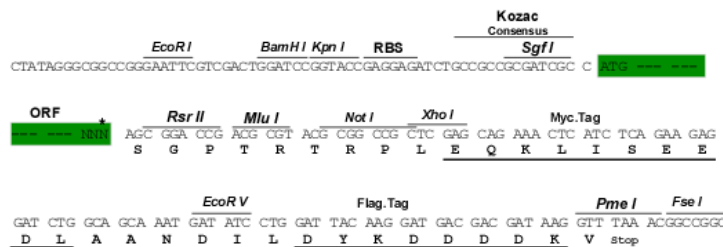
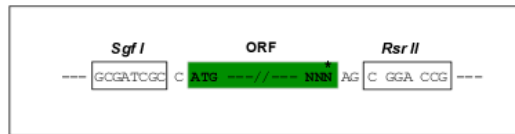
MFRLLRWRLGRTLLRAAGRRCGGCTARLLPERTGDAGTGAERLRTRGAPARGHGVLPLLAALAWFSRPAATAEQPGEDASDEAEAEIIQLLKQAKLSIMKDEPEAAELILHDALRLAYESDNRKAITYTYDLAEQLFKATMSYLLGGGMKQEDNAIIIEISLKLANIYAAQNKQEFALAGYEFICISTLEGKIEREKELAEIDIMSEETANTYLLLGMCLDSCARYLLFSKQLSQAQRMYEKALQICQEIQGERHPQTIVLMSDLATTLDAQGHFDDAYIYMQRASDLAREINHPELHMVLSNLAAILIHRERYTQAKEIYQEALKRAELKRDEVSVQHIREELAELSRKSRRLT

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_029704

ORF Size: 1056 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_029704.2](#), [NP_083980.2](#)

RefSeq Size: 3397 bp

RefSeq ORF: 1059 bp

Locus ID: 72795

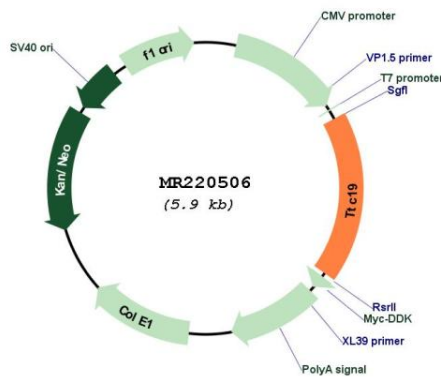
UniProt ID: [Q8CC21](#)

Cytogenetics: 11 B2

MW: 40.2 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 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 MR220506