

Product datasheet for **MG220513**

Ttc19 (NM_028360) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ttc19 (NM_028360) 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: >MG220513 representing NM_028360
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTCCGGTTGCTTCGCTGGCGTCTGGGTGCAACCTGCTGCGGGCCGCGGGCCGGCGGTGTGGGGTT
 GTACGGCGCGCTGCTGCCGGAGCGGACGGGCGACGCGGGGACGGGCGCGGAGCGGCTGCCGACCCGAGG
 CGCGCCGGCGGGGGCACGGGGTGTGCCGTGTTGGCAGCTCTCGCTGGTTCTCGGACCCGCGGGC
 ACGGCCGAGCAGCCGGGAGAGGACGCGTCAGACGAGCGGAGGCCGAGATCATCCAGCTGCTGAAGCAAG
 CCAAGTTGAGCATCATGAAAGACGAGCCAGAAGCGGCCGAGCTGATTTTGCATGACGCTCTTCGCTTGC
 GTATGAGAGTGACAACAGGAAGGCCATCACGTACACTTATGACCTGATGGCAACTTAGCATTTATACGA
 GGGCAGCTTGAATGCAGAACAGCTTTTTAAAGCAACGATGAGTTATCTGCTTGAGGAGGCATGAAGC
 AGGAAGACAATGCAATAATTGAAATCTCTGAAACTGGCCAACATCTATGCTGCTCAGAATAAACAGGA
 ATTTGCCCTTGCTGGCTATGAATTCTGCATTTCAACTCTAGAGGGGAAAATTGAAAGAGAAAAGGAATTA
 GCAGAAGATATTATGTCAGAAGAAACAGCCAATACTTACCTCCTCCTTGGTATGTGCTTAGACTCTTGTG
 CACGCTATCTGCTATTCTCCAAGCAGCTATCACAGGCACAAGGATGTATGAAAAAGCCCTGCAGATTTG
 TCAAGAAAATAAAGGAGAAAGACACCCACAGACCATTGTGCTGATGAGTGACTTGGCTACTACTCTGGAT
 GCACAGGGCCACTTTGATGATGCCTACATTTATATGCAGAGGGCGTCAGATCTGGCAAGAGAGATAAATC
 ACCTGAGCTGCACATGGTACTCAGCAATCTGGCTGCCATTTTATACACAGAGAGCGATACACACAAGC
 AAAGGAGATCTACCAGGAAGCGCTGAAGCGAGCAGAGCTGAAAAGAGATGAGTTTCTGTTACAGCATC
 AGGGAAGAATTGGCTGAACTGTCAAGAAAAAGTAGACGTTTACT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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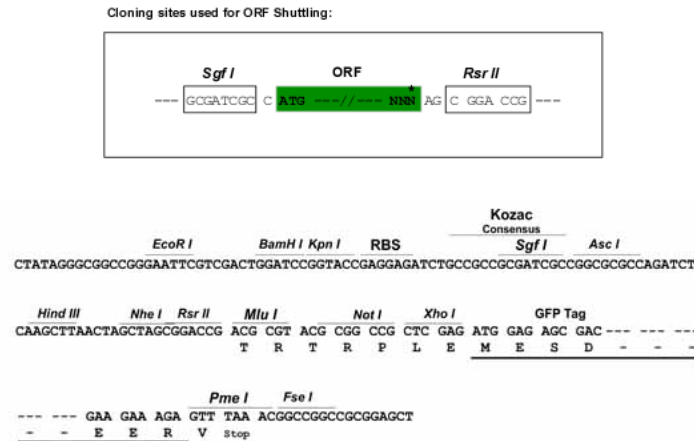
Protein Sequence: >MG220513 representing NM_028360
 Red=Cloning site Green=Tags(s)

MFRLLRWRLGRTLLRAAGRRCGGCTARLLPERTGDAGTGAERLRTRGAPARGHGVLPLLAALAWFSRPAA
 TAEQPGEDASDEAEAEIIQLLKQAKLSIMKDEPEAAELILHDALRLAYESDNRKAITYTYDLMANLAFIR
 GQLENAEQLFKATMSYLLGGGMKQEDNAIIEISLKLANIYAAQNKQEFALAGYEFICISTLEGKIEREKEL
 AEDIMSEETANTYLLLLGMCLDSCARYLLFSKQLSQAQRMYEKALQICQEIQGERHPQTIVLMSDLATTL
 AQGHFDDAYIYMQRASDLAREINHPELHMYLSNLAAILIHRERYTQAKEIYQEALKRAELKRDEVSVQHI
 REELAELSRKSRRLLT

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_028360

ORF Size: 1095 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_028360.2](#), [NP_082636.3](#)

RefSeq Size: 3419 bp

RefSeq ORF: 1098 bp

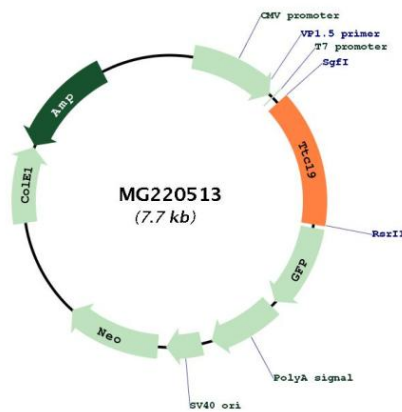
Locus ID: 72795

UniProt ID: [Q8CC21](#)

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 MG220513