

Product datasheet for MR215738

Coq10b (NM_001039710) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Coq10b (NM_001039710) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Coq10b
Synonyms: 1500041J02Rik; 1700030I21Rik; 9530077A17Rik; AV002237; AW742641
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR215738 representing NM_001039710
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCATGGCAGCTCGGACCAGTCAGAGGGCCCTGGCGAGGGTGGCATCGGGGTGCCATCCGAAGTCGA
 CCACCGTGACGGAAGCCCCGGCGCGGGGTCTGCGCGGACGTCAGACACTTAGCTGCCTGTGGTGTACT
 GATAAACAGAACCCTTCCACCGTGTGCTGCAGTTTGCCTAAAGAGATCTGTGCGAGAACCTTCTCAGA
 ATCTCTGCGCCACTAGTAAATAAACGAAAGGAGTATTCAGAGAGAAGAATTCTAGGGTACTCAATGCAAG
 AAATGTATGACGTAGTATCAGGAATGGAGGACTATCAGCATTTCGTTCCCTGGTGTAAAAAGTCAGATAT
 AATATCAAGGCGATCTGGATACTGTAAAACCAGATTAGAAGTTGGGTTCACCCCGTTCTGGAGAGATAC
 ACATCAATAGTAACCTTGGTAAAACCGCACTTGGTAAAGGCATCTTGTACTGATGGGAAACTTTTCAATC
 ATTTGGAGACTATTTGGCGTTTTAGCCCAGGTCTTCTGGCTATCCAAGAAGTGTACCTTGGATTTTTC
 AATTTCTTTGAATTCGCTCCCTTCTGCACTCTCAGCTCGCTACTCTGTCTTCGATGAAGTTGTGAAA
 CAAATGGTAGCAGCCTTTGAAAGAAGAGCCTGTAACTGTATGGTCCAGAGACAAACATACCTCGGGAAT
 TAATGCTTCATGAAATTCACCACACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215738 representing NM_001039710
 Red=Cloning site Green=Tags(s)

MIMAARTSQRALARVASGCHPKSTTVTEAPARGSARDVRHLAACGVLINRTLPPCAAVLPKEICARTFFR
 ISAPLVNKRKEYSERRILGYSMQEMYDVVSGMEDYQHFVPWCKKSDIISRRSGYCKTRLEVGFPVFLERY
 TSIVTLVKPHLVKASCTDGKLFNHLETIWRFSPLPGYPRCTLDIFSISFEFRSLLHSQLATLFFDEVVK
 QMVAAFERRACKLYGPETNIPREMLLHEIHHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9060_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001039710

ORF Size: 726 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_001039710.1](#), [NP_001034799.1](#)

RefSeq Size: 1748 bp

RefSeq ORF: 729 bp

Locus ID: 67876

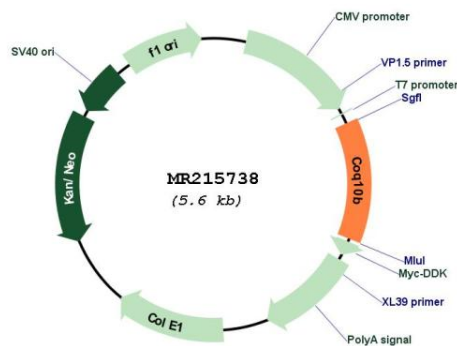
UniProt ID: [Q3THF9](#)

Cytogenetics: 1 C1.2

MW: 27.5 kDa

Gene Summary: Required for the function of coenzyme Q in the respiratory chain. May serve as a chaperone or may be involved in the transport of Q6 from its site of synthesis to the catalytic sites of the respiratory complexes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215738