

Product datasheet for **MR218650**

Coq10b (NM_026424) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Coq10b (NM_026424) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Coq10b
Synonyms: 1500041J02Rik; 1700030I21Rik; 9530077A17Rik; AV002237; AW742641
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR218650 representing NM_026424
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATCATGGCAGCTCGGACCAGTCAGAGGGCCCTGGCGAGGGTGGCATCGGGTGCCATCCGAAGTCGA
CCACCGTGACGGAAGCCCGCGCGGGGTCTGCGCGCAGCTCAGGTAATCAATGCAAGAAATGTATGA
CGTAGTATCAGGAATGGAGGACTATCAGCATTTCTGTTCCCTGGTGTAAAAAGTCAGATATAATATCAAGG
CGATCTGGATACTGTAAAACAGATTAGAAGTTGGGTTCCCCCGTTCTGGAGAGATACACATCAATAG
TAACCTTGGTAAAACCGCACTTGGTAAAGGCATCTTGTACTGATGGGAACTTTTCAATCATTTGGAGAC
TATTTGGCGTTTTAGCCAGGCTTCTCTGGCTATCCAAGAAGTTGTACCTTGGATTTTTCAATTTCTTT
GAATTCGCTCCCTTCTGCACTCTCAGCTCGCTACTCTGTTCTTCGATGAAGTTGTGAAACAAATGGTAG
CAGCCTTTGAAAGAAGCCTGTAACTGTATGGTCCAGAGACAAACATACTCGGGAATTAATGCTTCA
TGAAATTCACCACACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218650 representing NM_026424
Red=Cloning site Green=Tags(s)

MIMAARTSQRALARVASGCHPKSTTVTEAPARGSARDVRYSMQEMYDVVSGMEDYQHFVPWCKKSDIISR
RSGYCKTRLEVGFPPVLERYTSIVTLVKPHLVKASCTDGKLFNHLETIWRFSPGLPGYPRCTLDFSI
EFRSLLHSQALATLFFDEVVKQMVAAFERRACKLYGPETNIPREMLMLHEIHHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

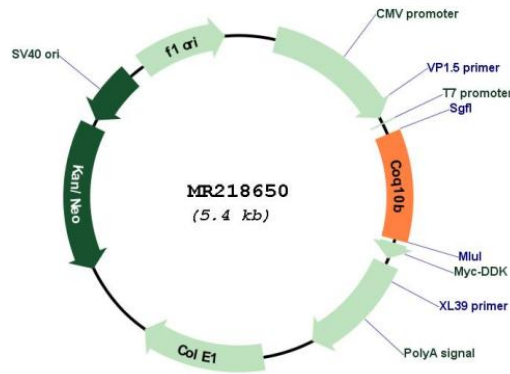


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Cloning Scheme:



Plasmid Map:



ACCN: NM_026424

ORF Size: 576 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_026424.3](#), [NP_080700.3](#)

RefSeq Size: 1598 bp

RefSeq ORF: 579 bp

Locus ID: 67876

UniProt ID: [Q3THF9](#)

Cytogenetics: 1 C1.2

MW: 22.4 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]