

Product datasheet for **MR200043**

Cox17 (NM_001017429) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cox17 (NM_001017429) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cox17
Synonyms: A1037035
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200043 representing NM_001017429
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGGACTGGCGCCGCTAGCCCTGCCCGCCCGAGGCTCAGGAGAAGAAGCCACTGAAGCCCTGCT
GTGCCTGCCCGAAACCAAGAAGCGCGTGATGCGTGATCATTGAGAAAGGAGAAGAACTGTGGACA
TCTCATTGAAGCCACAAGGAGTGCATGAGGGCACTGGGATTTAAGATA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/mm9049_h02.zip

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:



ACCN: NM_001017429

ORF Size: 189 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_001017429.2](#), [NP_001017429.1](#)

RefSeq Size: 436 bp

RefSeq ORF: 192 bp

Locus ID: 12856

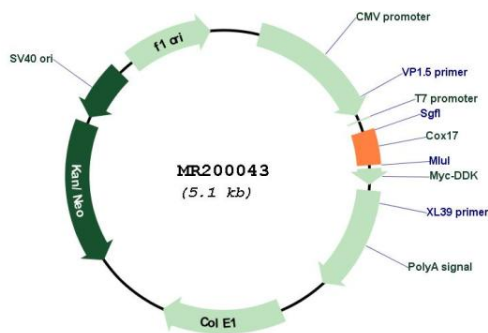
UniProt ID: [P56394](#)

Cytogenetics: 16 B3-B4

MW: 7.2 kDa

Gene Summary: Copper metallochaperone essential for the assembly of the mitochondrial respiratory chain complex IV (CIV), also known as cytochrome c oxidase. Binds two copper ions and delivers them to the metallochaperone SCO1 which transports the copper ions to the Cu(A) site on the cytochrome c oxidase subunit II (MT-CO2/COX2).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200043