

## Product datasheet for MR218609

### Cox16 (NM\_025461) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cox16 (NM\_025461) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cox16  
**Synonyms:** 1810020G14Rik; 1810055I05Rik; BB388670  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR218609 representing NM\_025461  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTGCGCCCGCTGTGTTGCGAGCTCTGCGTAAGAACAAGACTCTACGCTATGGAGTCCCATGTTGT  
TGCTGGTTGTTGGAGTCTTTTGGTCTTCGTGAATTTTCACAAATCCGGTACGATGCTGTGACAATTAA  
GATTGATCCTGAATTGGAGAAAAATTGAAAGTGAATAAAATAACTTTAGAGTCAGAGTATGAGAAAATA  
AAGGACTCCACTTTTAAAAGTGAAGAATATTCGAGGTCGGAGGCTTGGGAAGATCCTCAACTCTCC  
AAGGACGAAACCCAGAACTCTTAAGCCTAAGACAACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218609 representing NM\_025461  
Red=Cloning site Green=Tags(s)  
MIAPAVLRALRKNKTLRYGVPMLLLIVVGSFGLREFSQIRYDAVTIKIDPELEKLLKVNKITLESEYEKI  
KDSTFENWKNIRGPRPWEDPQLLQGRNPETLKPKTT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9006\\_f02.zip](https://cdn.origene.com/chromatograms/mm9006_f02.zip)

**Restriction Sites:** SgfI-MluI



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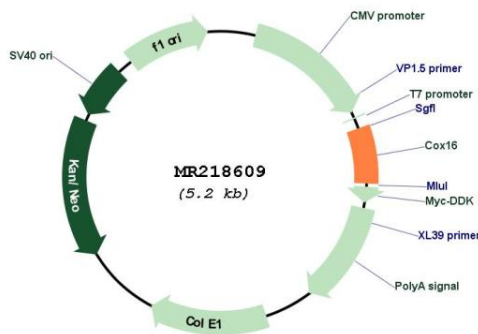
UniProt ID: [Q9CR63](#)

Cytogenetics: 12 D1

MW: 12.7 kDa

**Gene Summary:** Required for the assembly of the mitochondrial respiratory chain complex IV (CIV), also known as cytochrome c oxidase. Promotes the insertion of copper into the active site of cytochrome c oxidase subunit II (MT-CO2/COX2). Interacts specifically with newly synthesized MT-CO2/COX and its copper center-forming metallochaperones SCO1, SCO2 and COA6. Probably facilitates MT-CO2/COX2 association with the MITRAC assembly intermediate containing MT-CO1/COX1, thereby participating in merging the MT-CO1/COX1 and MT-CO2/COX2 assembly lines.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218609