

## Product datasheet for **MC210345**

### Cox20 (NM\_025511) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cox20 (NM\_025511) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cox20  
**Synonyms:** 2310005N03Rik; Fam36a  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210345 representing NM\_025511  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGCCGCCCGGAGCCCCACGAGACGGAGAAAAAGCCCTCAAGCTCCTAGGTATTTAGATGTTG  
AGAACTCCATGTGCTCGAGAATCTATACTCTATGGCTCATTAGGATCTATTGTGACTGGACTTGGACA  
TTTCTTGGTGACCAGTAGAATTAGAAGATCATGTGATGTTGGAGTAGGAGATTTATCCTGGTGACTTTA  
GGATGCTGGTTCCACTGTAGGTATAATTCGCTAAGCAGAGGATCCAGGAAAGAATTGCCAGAGAAGGAA  
TAAAAATAAGATTTTATATGAAAGCACCCACCTTGATCTGAAAGAAAAATGAAGACCAACAACAGCAG  
CTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_025511  
**Insert Size:** 354 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  
**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\\_025511.2](#), [NP\\_079787.1](#)

**RefSeq Size:** 448 bp

**RefSeq ORF:** 354 bp

**Locus ID:** 66359

**UniProt ID:** [Q9D7J4](#)

**Cytogenetics:** 1 H4

**Gene Summary:** Essential for the assembly of the mitochondrial respiratory chain complex IV (CIV), also known as cytochrome c oxidase. Acts as a chaperone in the early steps of cytochrome c oxidase subunit II (MT-CO2/COX2) maturation, stabilizing the newly synthesized protein and presenting it to metallochaperones SCO1/2 which in turn facilitates the incorporation of the mature MT-CO2/COX2 into the assembling CIV holoenzyme.[UniProtKB/Swiss-Prot Function]