

Product datasheet for **MR200523**

Cox20 (NM_025511) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cox20 (NM_025511) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cox20
Synonyms: 2310005N03Rik; Fam36a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200523 representing NM_025511
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCGCCCGGAGCCCCACGAGACGGAGAAAAAGCCCTTCAAGCTCCTAGGTATTTAGATGTTG
AGAACACTCCATGTGCTCGAGAATCTATACTCTATGGCTCATTAGGATCTATTGTGACTGGACTTGGACA
TTTCTTGGTGACCAGTAGAATTAGAAGATCATGTGATGTTGGAGTAGGAGGATTTATCCTGGTGACTTTA
GGATGCTGGTTCCACTGTAGGTATAATTCGCTAAGCAGAGGATCCAGGAAAGAATTGCCAGAGAAGGAA
TAAAAATAAGATTTTATATGAAAGCACCCACCTTGATCCTGAAAGAAAAATGAAGACCAACAACAGCAG
C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200523 representing NM_025511
Red=Cloning site Green=Tags(s)

MAAPEPHETEKPKFKLLGILDVENTPCARESILYGSLSIVTGLGHFLVTSRIRRS CDVGVGGF ILVTL
GCWFHCRYNFAKQRIQER IAREGIKNKILYESTHLDPERKMKTNSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9041_g09.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_025511

ORF Size: 351 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_025511.2](#), [NP_079787.1](#)

RefSeq Size: 448 bp

RefSeq ORF: 354 bp

Locus ID: 66359

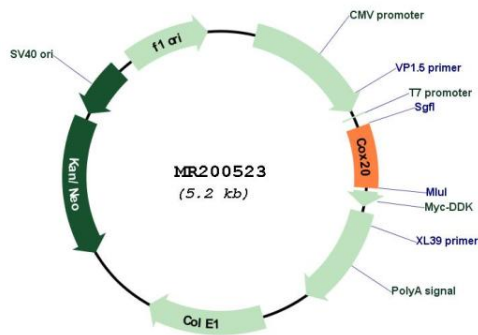
UniProt ID: [Q9D7J4](#)

Cytogenetics: 1 H4

MW: 13.6 kDa

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]

Product images:



Circular map for MR200523