

Product datasheet for MC212920

Cox18 (NM_001033310) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cox18 (NM_001033310) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cox18
Synonyms:	BC038311
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212920 representing NM_001033310 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGCTGTGCCGGTCGTGTGCCGGTGGCTCAGGTCGTCGCCACCCTGCGGCTCCCGGCACCGGGATCACCGCCCCCTGGAGCAGCGCGGGCTCCCAGCCCTCCGGTATGGGCAGCCGCTTCGGTGTCTGCGGCCTCTCCAGGTGGTGGTATGAGGCCCTGGCAGCGTCGGCGCCGGTGGCACCAGGAGAAAGTGTCTGGGCGCGAGGCTACCGGCCTCCCTGGTGGAGCAACATCATACTCAGCACCGTTGCCCTGCGCGGTGCTGTCCTCTGCCCTGGCCGCTATCAGCACTACATCCTGGCTAAGGTGAAAACCTGCAACCAGAAATAAAGACATCGCCAAGCGCCTTAACCAAGAAGTTGCAGTCTGTGCCCGTCAGTTTGGATGGTCCAAGAGAGTGCTAGACTCACCTATCTGAAGAATGCGGAGACTTATCTCAGAGCTGTATGTCCGTGACAACTGCCACCCTTTCAAAGCCACGGTGTCTGGTCTGGTCCAGCTTCCAATGTGGGTTTTTCATCTCTGTGCGCCCTCCGGAACCTCAGCACTGGGGCCACACATTCAGACGGCATTTCTGTTAGGAACAGTTAGCTGCTGGCGGGACGCTGTGGTTTCTGACCTCACCGCAGTGGATTCCACCTGGATTCTGCCTGTCTGTTGGTGTGTCAACCTACTGATAGTGGAGATTTTTGCTCTACAAAAAATTGGGACGCTCGTTTTCAAATGTATGTTACAAATTTGTCCGAGCTGTATCCGTGTTGATGATTCCAGTTGCTGCAACAGTACCCTCGGCGCTTGTCTCTACTGGCTGTGCTCCAGCCTCATGGGCTCGCACAGAACCTGCTGCTGCGCTCCCCTGGGTTCCGCCAGCTCTGCCGGA TACCACCAAGCAAGTCCGACTCAGAGACCCCGTACCGAGACCTCTCTGCTGCCTTTTGCGCCAAGTTCCTTCAAGAAAACGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001033310
Insert Size:	996 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:	<ol style="list-style-type: none">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:	<u>NM_001033310.3</u> , <u>NP_001028482.2</u>
RefSeq Size:	1338 bp
RefSeq ORF:	996 bp
Locus ID:	231430
UniProt ID:	<u>Q8VC74</u>
Cytogenetics:	5 E1
Gene Summary:	<p>Mitochondrial membrane insertase required for the translocation of the C-terminus of cytochrome c oxidase subunit II (MT-CO2/COX2) across the mitochondrial inner membrane. Plays a role in MT-CO2/COX2 maturation following the COX20-mediated stabilization of newly synthesized MT-CO2/COX2 protein and before the action of the metallochaperones SCO1/2. Essential for the assembly and stability of the mitochondrial respiratory chain complex IV (also known as cytochrome c oxidase).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1, that results in a protein (isoform 2) that is 1 aa shorter than isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>