

## Product datasheet for RC237539

### COX18 (NM\_001300729) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** COX18 (NM\_001300729) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** COX18  
**Synonyms:** COX18HS  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237539 representing NM\_001300729  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGCTTTATGCCCGCTGTTGCTGGCGCGTGCAGATATCAGCCTTGGCTGGCCGGTGTATGTCCGCTGG  
ATTGTGAGGCCCGGATCTGGGCTCCGCGTGGTGCAGAAATGCTGTGCCGGCTCGGCGGTGGTGGCTG  
CGGCCGCTCCCTGCCCTGCAGCTTTGGGCTAGGGACCTGCGCTTGCGCCGGTCTACGAGCGGCCCA  
AGCGCCCACTCTCCAGTGTGGCAGTGGCACCAGTCTCTGCAGTACATGCGAACGGCTGGTACGAGGC  
CCTGGCCCGCTTTCGCCGGTGCAGGTTGCGGAGGAAGTACTGCTCGGCGTGCACGCCGCCACGGCCCTG  
CCCTGGTGGGCGAGCATTCTGCTCTCCACCGTGGCCTTACGGGGTGTGTACGCTGCCTTTGGCAGCCT  
ACCAGCACTACATCCTGGCCAAGGCTCACTTATCTAAAGAATATGAGGAGGCTAATTTAGAGCTATATG  
TGCGAGATAACTGCCACCCTTTCAAAGCCACTGTGTTGGTTTGGATTGAGCTTCCAATGTGGATCTTCAT  
GTCTTTTGCTCTCCGGAATTTAAGCACGGGGGCGAGCACATTGAGAAGTTTTTCTGTTGAGAACAGTTA  
GCTACTGGTGAATTTCTGTGTTTCTGACCTCACTGCACCCGACTCCACTGGATTCTGCCTATCTCTG  
TTGGCGTCATCAATTTGTTAATAGTGGAGATTTGCTCTACAAAAAATGGAATGTCTCGTTTTACAGC  
GTATATTACGTACTTTGTCCGTGCAATGTCGGTGTGATGATACCAATTGCTGCAACGGTACCCCTCATCA  
ATTGTTCTCTACTGTTATGCTCCAGCTTCGTGGCCCTTTCACAGAATTTGCTGTGCGTTCCTGGAT  
TTCGCCAACTTTGCCGAATACCATCGACCAAGTCAGATTCAGAACTCCTTATAAAGACATATTTGCTGC  
CTTTAATACCAAGTTCATTTCAAGAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237539 representing NM\_001300729  
 Red=Cloning site Green=Tags(s)

MRFMPAVAGACAYQPWLAGVCPLDCEARDLGSVAVQKCCAGSAVGGCGRSLPCSFGLGTCRLRRFLRAAP  
 SAPLSQCGQWHQSLQYMRTAGTRPWRLRRCGLRRKYCSACTPPRACPGGAFCSPWPYGVLSRCLWQP  
 TSTTSWPRLTYLKNMRRLLISELYVRDNCHPFKATVLVWIQLPMWIFMSFALRNLSTGAAHSEGFVSQEQL  
 ATGGILWFPDLTAPDSTWILPISVGVINLLIVEICALQKIGMSRFQTYITYFVFRAMSVLMIPIAATVPSS  
 IVLYWLCSSFVGLSQNLLLRSPGFRQLCRIPSTKSDSETPYKDIFAAFNTKFIISRK

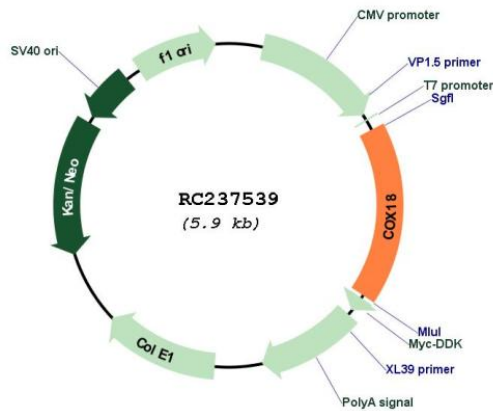
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001300729

**ORF Size:** 1008 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001300729.1</a> , <a href="#">NP_001287658.1</a>
<b>RefSeq Size:</b>	4429 bp
<b>RefSeq ORF:</b>	1011 bp
<b>Locus ID:</b>	285521
<b>UniProt ID:</b>	<a href="#">Q8N8Q8</a>
<b>Cytogenetics:</b>	4q13.3
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	37.8 kDa
<b>Gene Summary:</b>	This gene encodes a cytochrome c oxidase assembly protein. The encoded protein is essential for integral membrane protein insertion into the mitochondrial inner membrane. It is also required for cytochrome c oxidase assembly and activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]