

## Product datasheet for **MG218609**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cox16 (NM\_025461) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cox16  
**Synonyms:** 1810020G14Rik; 1810055I05Rik; BB388670  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218609 representing NM\_025461  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATTGCGCCCGCTGTGTTGCGAGCTCTGCGTAAGAACAAGACTCTACGCTATGGAGTCCCATGTTGT  
 TGCTGGTTGTTGGAGTTCTTTTGGTCTTCGTGAATTTTCACAAATCCGGTACGATGCTGTGACAATTAA  
 GATTGATCCTGAATTGGAGAAAAATTGAAAGTGAATAAAATAACTTTAGAGTCAGAGTATGAGAAAATA  
 AAGGACTCCACTTTTGAAAAGTGAAGAATATTCGAGGTCGGAGGCTTGGAAGATCCTCAACTCTCC  
 AAGGACGAAACCCAGAACTCTTAAGCCTAAGACAACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG218609 representing NM\_025461  
 Red=Cloning site Green=Tags(s)  
 MIAPAVLRALRKNKTLRYGVPMLLL VVGGSFGLREFSQIRYDAVTIKIDPELEKLLKVNKITLESEYEKI  
 KDSTFENWKNIRGPRPWEDPQLLQGRNPETLKP KTT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



[View online »](#)



<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_025461.6</a> , <a href="#">NP_079737.1</a>
<b>RefSeq Size:</b>	1997 bp
<b>RefSeq ORF:</b>	321 bp
<b>Locus ID:</b>	66272
<b>UniProt ID:</b>	<a href="#">Q9CR63</a>
<b>Cytogenetics:</b>	12 D1
<b>Gene Summary:</b>	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]