

## Product datasheet for MC211237

### Coq2 (NM\_027978) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Coq2 (NM\_027978) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Coq2  
 Synonyms: 2310002F18Rik; PHB:PPT  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC211237 representing NM\_027978  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGCTGGGAGGCGGGGCTCGCGGGGCTGCGGGCCGTTCCGGTCCGCATGGCTGCGAGGTC  
 CGCGGGGCTCCATTGGCCCTGGTGCAGCGCAGGGGTTCCGGGCGCGGGATCGGCGAGCCCCGGC  
 CCCGGGACGCAGCGGGCCGAGCTCTCAGCCTGTCGGCCGCGGCGTGGTGAACCGGCGCCCCCGCCG  
 CTGCAGCCCTACCTGCGCCTCATGCGCCTGGACAAGCCATAGGAACCTGGCTGCTGTATTGGCCATGCA  
 CTTGGAGCATTGGTCTGGCCGCTGACCCAGGTTGTTTTCCAGACTGGTACATGTTATCACTTTTTGGCAC  
 TGGAGCTATTCTGATGCGTGGAGCAGGCTGACTATTAATGACATGTGGGACCGTGACTTCGATAAAAAAG  
 GTTACAAGGACAGCAAACCGCCAATCGCTGCTGGAGACATTCGACCTCCAGTCTTCGTTCTCCTTG  
 GGGACAGCTGACCTGGCACTGGGCGTTCTCCTGTGTTAACTACTACAGTATAGCAATGGGAGCAGC  
 GTCCTTACTTCTGTGCTCACCTACCCACTAGTAAAAGAATCACGTTTTGGCCTCAGTTGGCTTTGGGA  
 TTGACTTTTAATTGGGGTGCCTTACTCGGATGGTCTGCTGTCAAGGGCTCCTGTGATCCGGCTGTATGCC  
 TGCCTCTGATTTTTCTGGAGTTATGTGGACACTGATATATGATACTATCTATGCCACCAAGGACAAGAA  
 AGACGATGCTCTGATCGGCCTGAAGTCCACAGCACTGCTGTTCCAGGAGAACACAAGGCAGTGGCTTAGT  
 GGCTTTGGGGTCGCCATGGTGGCAGCGCTGAGCCTGGCGGGAGCCAACAATGGTCAGACTGTCCCCTACT  
 ACGCTGCTGTGGCTGCGGTGGGAGCCACCTGGCTCACCAGATTTACACTGTAGACATCCACAGAGCCGA  
 GGACTGCTGGGACAAGTTCACCTCCAACCCACAGTAGGAATGCTCCTGTTCTTAGGGATTGCTCCTTGA  
 AACCTGTGCAAAGAAAAGACGGAAGAAGCAAAGATGCTGAAGCTGTTAGAGTGGGAAGTGGAGCAGACGA  
 GCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



<b>ACCN:</b>	NM_027978
<b>Insert Size:</b>	1125 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_027978.2</a></u> , <u><a href="#">NP_082254.2</a></u>
<b>RefSeq Size:</b>	1712 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	71883
<b>UniProt ID:</b>	<u><a href="#">Q66JT7</a></u>
<b>Cytogenetics:</b>	5 E4
<b>Gene Summary:</b>	Catalyzes the prenylation of para-hydroxybenzoate (PHB) with an all-trans polyprenyl group. Mediates the second step in the final reaction sequence of coenzyme Q (CoQ) biosynthesis, which is the condensation of the polyisoprenoid side chain with PHB, generating the first membrane-bound Q intermediate.[UniProtKB/Swiss-Prot Function]