

## Product datasheet for **RN207868**

### Coq2 (NM\_001044255) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Coq2 (NM\_001044255) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Coq2  
**Synonyms:** PHB:PPT; RGD1306722  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN207868 representing NM\_001044255  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTGCGCTTGGGAGGCGGGGCTAGTGGGGGCTGCGGGTGGTGTGCCCCGATGGCTGCGAGGTC  
CGGGTGGACTCCCGCTGGCCCTGGCGCGCACACAGGGACGTGGGAGCGCGGGACCGGCGAGCGCCGGC  
CTCCGGGACGCAGCGCGGGCGCAGCTCAGCCTGTCCCGCAGCCGTAGTGAACCGGGCCCCCGCCG  
CTGCAGCCCTACCTGCGGCTCATGCGCCTGGACAAGCCATCGGAACCTGGCTGCTGATTTGCCATGCA  
CTTGGAGCATTGGTCTGGCCGCTGACCCGGGTTGTTTTCTGACTGGTATATGTTATCACTCTTTGGCAC  
TGGAGCTATTCTCATGCGTGGAGCAGGCTGACTATTAATGACATGTGGGACCGTACTTCGATAAAAAG  
GTCGAGAGGACAGCAAACCGCCAATCGCCGCGGGAGACATTTACGCCTTCCAGTCCCTTCGTTCTTCTT  
GGGCACAGCTGACCTGGCACTGGCGTTCTCCTGCATCTGAACTACTACAGTATAGCAATGGGAGCAGC  
ATCCTTACTTCTGTGTCACCTACCCCTCATGAAAAGAGTCACGTTCTGGCCTCAGTTAGCCTTGGGC  
TTGACTTTTAATTGGGGTGCCTACTCGGATGGTCTGCTGTCAAGGGCTCCTGTGATCCAGCTGTGTGCC  
TGCCCTTTATTTTCTGGAGTTATGTGGACACTGATATGATACTATTTATGCCACCAAGGACAAGAA  
AGATGATGCTCTGATTGGCCTGAAGTCCACAGCTCTGCTTTCAGGGAGAACCAAGCAGTGGCTCAGT  
GGCTTTGGGGTCGCCATGGTGGGAGCGCTGAGCCTGGTGGGAGCCAGCAGTGGTCCAGACCCCTCCCTTACT  
ACGCTGCCGTGGCTGCAGTGGGAGCCACCTGGCTCACCAGATTTACACCGTGGACATCCACAGAGCCGA  
GGACTGCTGGGAAAAGTTTACCTCCAACCGCACAGTAGGCCTACTCCTGTTCTTAGGGATTGTGCTTGGG  
AATTTGTACAAAGACAAGCCGGACGAGACGAAGGGAGTGGACGCTGTTGGAGAGGAAAGTGGAGGACAA  
GCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



<b>ACCN:</b>	NM_001044255
<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_001044255.1</a></u> , <u><a href="#">NP_001037720.1</a></u>
<b>RefSeq Size:</b>	1797 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	498332
<b>UniProt ID:</b>	<u><a href="#">Q499N4</a></u>
<b>Cytogenetics:</b>	14p22
<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]