

## Product datasheet for **RR202804**

### Coq10b (NM\_001009671) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Coq10b (NM\_001009671) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Coq10b  
**Synonyms:** RGD1359509  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR202804 representing NM\_001009671  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATCATGGCAGCTCGGACTAGTCAGAGGACTCTGGCTAGGGTGGCATCGGGATGCCGTCCGAAGTCAA  
CCACAGTGACGGAAGCCCGGGTGCAGGGTCTGCGCGCAACGTCAGGTACTTAGCTCCCTGTGGTATACT  
GATGAACAGAACCCTTGACCGTGGCCCTCAGTTTTGCCTAAAGAGATCTGTGCAAGAACCTTCTTCAGA  
ATCACTACACCATTAGTAAATAAGCGAAAGGAGTATTCAGAGAGAAGAATTATAGGGTACTCCATGCAGG  
AAATGTATGATGTAGTATCAGGAATGGAAGATTATAAACATTTTGTTCCTTGGTGTAAAAAGTCAGATAT  
ATTATCAAGGAGATCTGGATATTGTA AACCCGATTAGAAATTGGGTTTCCCCCTGTTTTGGAGCGATAC  
ACATCAATAGTGACCTTGGTAAAACACATTTGGTAAAGGCCTCTGTACTGATGGGAACTTTTCAATC  
ATCTGGAGACTGTTTGGCGATTCAGCCCAGGTCTTCTGGCTATCCAAGAACATGTACCTTGGATTTTC  
AATTTCTTTGAATTCGCTCCCTTCTGCACTCTCAGCTCGCTACACTGTTCTTTGATGAAGTTGTGAAA  
CAAATGGTAGCGCCTTTGAAAGAAGAGCTTGAAACTGTATGGTCCAGAGACAAACATTCCTCGGGAAT  
TAATGCTTCATGAAATTCACCACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202804 representing NM\_001009671  
 Red=Cloning site Green=Tags(s)

MIMAARTSQRTLARVASGCRPKSTTVTEARVGRSARNVRYLAPCGILMNRTLAPWASVLPKEICARTFFR  
 ITTPLVNRKEYSERRIIGYSMQEMYDVSVMEDYKHFVPWCKSDILSRRSGYCKTRLEIGFPPVLERY  
 TSIVTLVKPHLVKASCTDGKLFNHLETVWRFSPGLPGYPRCTLDIFSISFEFRSLLHSQLATLFFDEVVK  
 QMVAAFERRACKLYGPETNIPREMLLHEIHHT

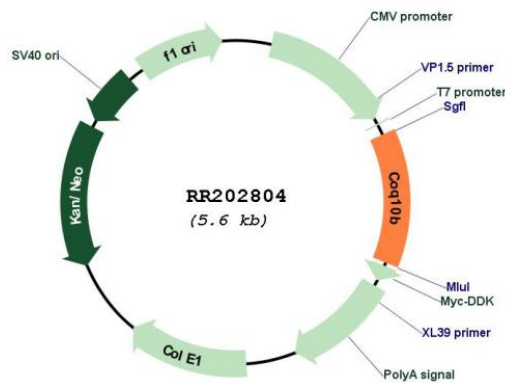
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001009671  
**ORF Size:** 726 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_001009671.1</a> , <a href="#">NP_001009671.1</a>
<b>RefSeq Size:</b>	1651 bp
<b>RefSeq ORF:</b>	729 bp
<b>Locus ID:</b>	301416
<b>UniProt ID:</b>	<a href="#">Q5I0I9</a>
<b>Cytogenetics:</b>	9q31
<b>MW:</b>	27.8 kDa
<b>Gene Summary:</b>	Required for the function of coenzyme Q in the respiratory chain. May serve as a chaperone or may be involved in the transport of Q6 from its site of synthesis to the catalytic sites of the respiratory complexes (By similarity).[UniProtKB/Swiss-Prot Function]