

Product datasheet for **RR215158**

Coq4 (NM_001031662) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Coq4 (NM_001031662) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Coq4
Synonyms: MGC116264
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215158 representing NM_001031662
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGACCTGCTGCTTCGCTCCAGCGCCTCCACCGCAGTCTCCGGCACCGTACGCGGCCAACTGTAG
ATGTGCTCCTCAGGGCCGCGAGCCATGGCGCCCGCTGCTGTACCAGACCACATCCCTACTACGCCGT
GCAGAAGATGCTGCTGGCCGCCGCGCGGGAATGGCGCTCTACAATCCCTATCGCCAGGACATGGTT
GCAGTTCTAGGGGAGACCACAGGATGCCACACCCTGAAATTCCTCAGGGACCAGATGAAGAAGGATCCAG
AGGGTGCCAGATTCTGCAAGAGCGTCCCCGAATCTCACTGTCTACCCTCGATCTAAGTAAGCTCCAGAG
CCTGCCTGAAGGCTCTCTGGGCCGTGAGTATCTGCGCTTCCTGAATGCGAATAAAGTCTCTCCAGATACA
CGAGCACCTACACGCTTTGTGGACGATGAAGAAGTACGCTATGTGATCCAGAGATACCGTGAGGTGCATG
ATATGCTCCACACCCTGCTGGGGATGCCACCAACATGCTCGGAGAAGTTGTGGTAAAGTGGTTTGAGGC
TGTGCAGACTGGCCTTCCCATGTGCATCCTGGGAGCACTTTCGGACCCGTCCTCCGTGCTCAGAGC
CTCCAGGTGCTTTTCTCAGAGCTGATCCCTTGGGCGATTACAGAACGGGCGCAGGGCCCCATGTGTCTCA
ACATCTACTATGAACAGGTTGGGAGCAGCCCCGACAGCCCTACGGGAGGAGCTGGGCATCAGTCTCC
CCAAAACACATCCAGGGCTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215158 representing NM_001031662
 Red=Cloning site Green=Tags(s)

MATLLLRSQLHRSLRHRTPTVDVLLRAASHGARLLYPDHIPTPLQKMLLAAGAAGMALYNPYRHDMV
 AVLGETTGCHTLKFLRDQMKKDPGAQILQERPRISLSTLDL SKLQSLPEGSLGREYLRFLNANKVSPDT
 RAPTRFVDDEELAYVIQRYREVHMLHTLLGMPNTNMLGEVVVWFEAVQTGLPMCILGALFGPVR LRAQS
 LQVLFSELIPWAIQNGRRAPCVLNIYYEQRWEQPLTALREELGISPPP KHIQGLA

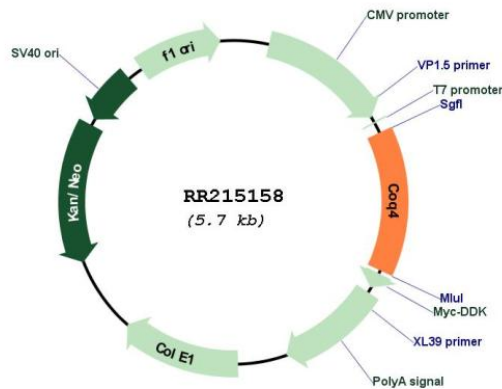
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001031662
ORF Size: 795 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001031662.1 , NP_001026832.1
RefSeq Size:	1257 bp
RefSeq ORF:	798 bp
Locus ID:	366013
UniProt ID:	Q4FZU1
Cytogenetics:	3p12
MW:	30 kDa
Gene Summary:	Component of the coenzyme Q biosynthetic pathway. May play a role in organizing a multi-subunit COQ enzyme complex required for coenzyme Q biosynthesis. Required for steady-state levels of other COQ polypeptides.[UniProtKB/Swiss-Prot Function]