

Product datasheet for MR224001

Coq4 (NM_178693) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Coq4 (NM_178693) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Coq4
Synonyms: A330041N06; D2Ertd97e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224001 representing NM_178693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGACCCTGCTGCTGCTTCGCTCCCTGCGCCTCCACCGCAGTCTTCGGCCCCGTACGCGGCCAGCTG
 TAGATGTACCCCTCAGGGCCGGGAGCCATGGCGCCCGCTGCTGTACCCGGACCACATCCCAACCACCC
 GCTGCAAAAGATGCTGCTGGCTGCGGGCGCGCGGAATGGCTCTCTACAACCCCTATCGCCACGACATG
 GTTGCAGTTCTAGGGGAGACCACAGGATGCCACACCCTGAAATTCCTCAGGGACCAGATGAAGAAGGATC
 CAGAGGGTGCCAGATTCTACAAGAGCGTCCCAGGATCTCCCTGTCTACCCTCGACTGAGCAAGCTTCA
 GAGCCTGCCTGAAGGCTCACTGGCCGTGAGTATCTTCGCTTCCTGGATGTGAATAAGGTCTCTCCAGAC
 ACACGAGCACCTACACGCTTTGTGGACGATGAAGAGCTAGCCTATGTGATCCAGAGGTACCGTGAAGTGC
 ACGACATGCTCCACACCCTGCTGGGCATGCCACCAACATGCTCGGAGAGGTTGTGGTAAAGTGGTTTGA
 GGCTGTGCAGACCGCCCTACCAATGTGCATCCTGGGAGCACTCTTCGGACCCATCCGCCTCCGTA
 AGCCTCCAAGTGTCTTCGGAGCTGATCCCTTGGGCGATTGAGAACGGGCGCAGGGCCCCATGTGTCC
 TCAACATCTACTATGAGCAGCGTTGGGAGCAGCCCTGACAGCCCTGCGGGAGGAGCTGGGCATCAGTCC
 TCCCCAAAACATATCCAGGGCCTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224001 representing NM_178693
Red=Cloning site Green=Tags(s)

MATLLLLRSLRLHRSRPRTRPAVDVPLRAGSHGARLLYPDHIPTTPLQKMLLAAGAAGMALYNPYRHDM
 VAVLGETTGCHTLKFLRDQMKDPEGAQILQERPRISLSTLDL SKLQSLPEGSLGREYLRFLDVNKVSPD
 TRAPTRFVDDEELAYVIQRYREVHMLHTLLGMPTNMLGEVVVKWFEAVQTGLPMCILGALFGPIRLRTQ
 SLQVLFSELIPWAIQNGRRAPCVLNIYYEQRWEQPLTALREELGISPPPKHIQGLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9064_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178693

ORF Size: 798 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:

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_178693.5](#)

RefSeq Size: 1987 bp

RefSeq ORF: 801 bp

Locus ID: 227683

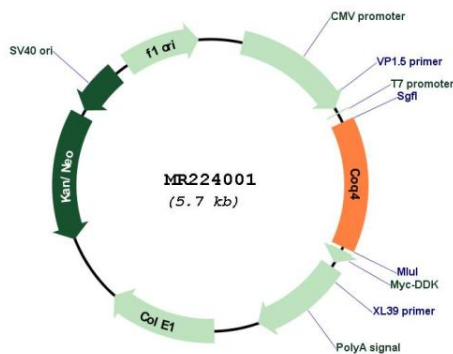
UniProt ID: [Q8BGB8](#)

Cytogenetics: 2 20.62 cM

MW: 30.1 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]

Product images:



Circular map for MR224001