

Product datasheet for MR205792

Coq2 (NM_027978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coq2 (NM_027978) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Coq2
Synonyms:	2310002F18Rik; PHB:PPT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205792 representing NM_027978 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGCTGGGGAGGCGGGGCTCGCGGGGCTGCGGGCCGTTCCGGTCCGCATGGCTGCGAGGTC
CGCGGGGCTCCCATTGGCCCTGGTGCGCAGCGCAGGGGTTCCGGGCGCGGGATCGGCGAGCCCCGGC
CCCCGGGACGCAGCGGGGCGAGCTCTCAGCCTGTGGCCGCGGCGTGGTGAACCGGCGCCCCCGCC
CTGCGGCCCTACCTGCGCCTCATGCGCCTGGACAAGCCATAGGAACCTGGCTGCTGTATTTGCCATGCA
CTTGGAGCATTGGTCTGGCCGCTGACCCAGGTTGTTTTCCAGACTGGTACATGTTATCACTTTTTGGCAC
TGGAGCTATTCTGATGCGTGGAGCAGGCTGTACTATTAATGACATGTGGGACCGTACTTCGATAAAAAG
GTTACAAGGACAGCAAACCGCCCAATCGCTGCTGGAGACATTTCCGACCTCCAGTCTTCGTTCTCCTTG
GGGACAGCTGACCTTGGCACTGGGCGTTCCTGTGTTAAACTACTACAGTATAGCAATGGGAGCAGC
GTCCTTACTTCTTGTGCTCACCTACCCACTAGTGAAAAGAATCACGTTTTGGCCTCAGTTGGCTTTGGGA
TTGACTTTTAATTGGGTGCGTTACTCGGATGGTCTGCTGTCAAGGGCTCCTGTGATCCGGCTGTATGCC
TGCCTCTGATTTTTCTGGAGTTATGTGGACACTGATATGATACTATCTATGCCACCAGGACAAGAA
AGACGATGCTCTGATCGGCCTGAAGTCCACAGCACTGCTGTTCCAGGAGAACAAGGCAGTGGCTTAGT
GGCTTTGGGTCGCCATGGTGGCAGCGCTGAGCCTGGCGGAGCCAACAATGGTCAGACTGCCCCACT
ACGCTGCTGTGGCTGCGGTGGGAGCCACCTGGCTCACCAGATTTACACTGTAGACATCCACAGAGCCGA
GGACTGCTGGACAAGTTCACCTCCAACCGCACAGTAGGAATGCTCCTGTTCTTAGGATTGTCTTGGAA
AACCTGTGCAAAGAAAAGACGGAAGAAGCAAAGATGCTGAAGCTGTTAGAGTGGGAAGTGAGCAGACGA
GC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205792 representing NM_027978
Red=Cloning site Green=Tags(s)

MLRWGGAGLARGLRAVRSAWLRGPRGLPLALVRSAGVPGARRRAPAGTQRGRALSLAAAVVNSAPRP
 LQPYLRMLRDKPIGTWLLYLPCTWSIGLAADPGCFPDWYMLSLFGTGAILMRGAGCTINDMWRDFDKK
 VTRTANRPIAAGDISTFQSFVFLGGQLTLALGVLLCLNYYSIAMGAASLLLVVITYPLVKRITFWPQLALG
 LTFNWGALLGWSAVKGSCLPAVCLPLYFSGVMWTLIYDTIYAHQDKKDDALIGLKSTALLFQENTRQWLS
 GFGVAMVAALSLAGANNQTPVYYAAVAAVGAHLAHQIYTVDIHRAEDCWDKFTSNRTVGMLLFLGIVLG
 NLCKEKTEEAKDAEAVRVGSEQTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_027978

ORF Size: 1122 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_027978.2](#), [NP_082254.2](#)

RefSeq Size: 1712 bp

RefSeq ORF: 1125 bp

Locus ID: 71883

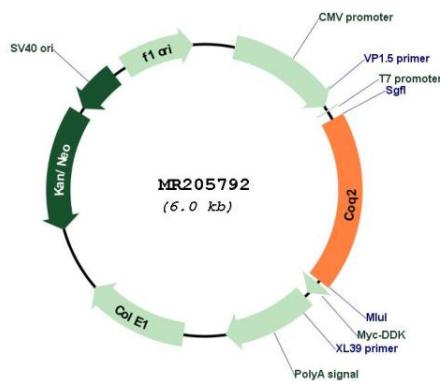
UniProt ID: [Q66JT7](#)

Cytogenetics: 5 E4

MW: 41 kDa

Gene Summary: 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]

Product images:



Circular map for MR205792