

Product datasheet for **MG205792**

Coq2 (NM_027978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coq2 (NM_027978) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Coq2
Synonyms:	2310002F18Rik; PHB:PPT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205792 representing NM_027978 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGCTGGGGAGGCGGGGCTCGCGGGGCTGCGGGCCGTTCCGGTCCGCATGGCTGCGAGGTC
CGCGGGGCTCCCATTGGCCCTGGTGCGCAGCGCAGGGGTTCCGGGCGCGGGATCGGCGAGCCCCGGC
CCCCGGGACGCAGCGGGCCGAGCTCTCAGCCTGTCGGCCGCGCCGTGGTGAACCTGGCGCCCCCGCC
CTGCAGCCCTACCTGCGCCTCATGCGCCTGGACAAGCCATAGGAACCTGGCTGTGTATTTGCCATGCA
CTTGAGCATTGGTCTGGCCGTGACCCAGGTTGTTTTCCAGACTGGTACATGTTATCACATTTTTGGCAC
TGGAGCTATTCTGATGCGTGGAGCAGGCTGTACTATTAATGACATGTGGGACCGTGACTTCGATAAAAAG
GTTACAAGGACAGCAAACCGCCCAATCGCTGCTGGAGACATTTCCGACCTCCAGTCTTCGTTCTCCTTG
GGGACAGCTGACCTTGGCACTGGGCGTTCTCCTGTGTTAAACTACTACAGTATAGCAATGGGAGCAGC
GTCCTTACTTCTGTGCTCACCTACCCACTAGTGAAAAGAATCACGTTTTGGCCTCAGTTGGCTTTGGGA
TTGACTTTTAATTGGGGTGCCTTACTCGGATGGTCTGCTGTCAAGGGCTCCTGTGATCCGGCTGTATGCC
TGCCTCTGATTTTTCTGGAGTTATGTGGACACTGATATGATACTATCTATGCCACCAGGACAAGAA
AGACGATGCTCTGATCGGCCTGAAGTCCACAGCACTGCTGTTCCAGGAGAACAAGGCAGTGGCTTAGT
GGCTTTGGGGTCGCCATGGTGGCAGCGCTGAGCCTGGCGGGAGCCAACAATGGTCAGACTGCCCTACT
ACGCTGCTGTGGCTGCGGTGGGAGCCACCTGGCTCACCAAGATTTACACTGTAGACATCCACAGAGCCGA
GGACTGCTGGGACAAGTTCACCTCCAACCGCACAGTAGGAATGCTCCTGTTCTTAGGGATTGTCCTTGG
AACCTGTGCAAAGAAAAGACGGAAGAAGCAAAGATGCTGAAGCTGTTAGAGTGGGAAGTGGAGCAGACGA
GC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205792 representing NM_027978
 Red=Cloning site Green=Tags(s)

MLRWGGAGLARGLRAVRSAWLRGPRGLPLALVRSAGVPGARRRAPAGTQRGRALSLAAAVVNSAPRP
 LQPYLRMLRLDKPIGTWLLYLPTWSIGLAADPGCFPDWYMLSLFGTGAILMRGAGCTINDMWRDFDKK
 VTRTANRPIAAGDISTFQSFVFLGGQLTLALGVLLCLNYYSIAMGAASLLLVVYPLVKRITFWPQLALG
 LTFNWGALLGWSAVKGSDDPAVCLPLYFSGVMWTLIYDTIYAHQDKDDALIGLKSTALLFQENTRQWLS
 GFGVAMVAALSLAGANNQTPVYYAAVAAVGAHLAHLAQIYTVDIHRAEDCWDKFTSNRTVGMLLFLGIVLG
 NLCCKEKTAAKDAEAVRVGSEQTS

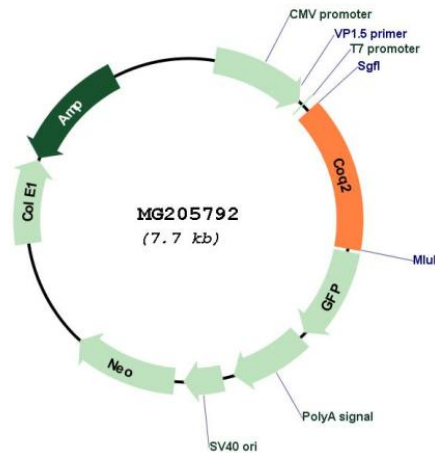
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_027978.2 , NP_082254.2
RefSeq Size:	1712 bp
RefSeq ORF:	1125 bp
Locus ID:	71883
UniProt ID:	Q66JT7
Cytogenetics:	5 E4
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]