

## Product datasheet for **MG202436**

### Coq7 (NM\_009940) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Coq7 (NM_009940) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Coq7
Synonyms:	clk-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202436 representing NM_009940 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGCCCGGAGCCATAGCGGCTGCTTCGTGGGACGCCTGCGCACTGGTGTCCGGAGGCCCTTCT  
CAGAGTATGGAAGAGGCCTCATCATCAGGTGTCACAGTTCGGGGATGACCTTAGACAATATTAACCGGGC  
AGCCGTGGATCGAATAATTCGGGTGGATCACGCTGGTGAATATGGAGCAAACCGCATCTATGCAGGGCAA  
ATGGCCGTGCTCGGTCGGACCAAGTGTGGCCCTGTCATTAGAAAATGTGGGATCAAGAGAAGAACCATT  
TGAAAAAGTTCAACGAGTTGATGATTGCATTCAGGGTCCGACCTACGGTTTTGATGCCCTTGTTGGAACGT  
GGCAGGCTTGGCCCTGGGGCAGGAAGTGCCTTGTGGGAAAGGAAGGAGCAATGGCCTGCACCGTGGCC  
GTAGAAGAGTCTATCGCTAATCACTACAACAACCAGATCCGCATGCTGATGGAAGAGGACCTGAGAAGT  
ATGAGGAGCTGCTGCAGGTCATCAAGCAGTTTCGCGATGAGGAGCTTGAACACCACGATACAGGCCTGGA  
CCATGACGCAGAGCTGGCTCCCGGTATGCCTTGTGAAGAGGATTATCCAGGCCGGATGCAGTGCAGCC  
ATATATTTATCAGAAAGTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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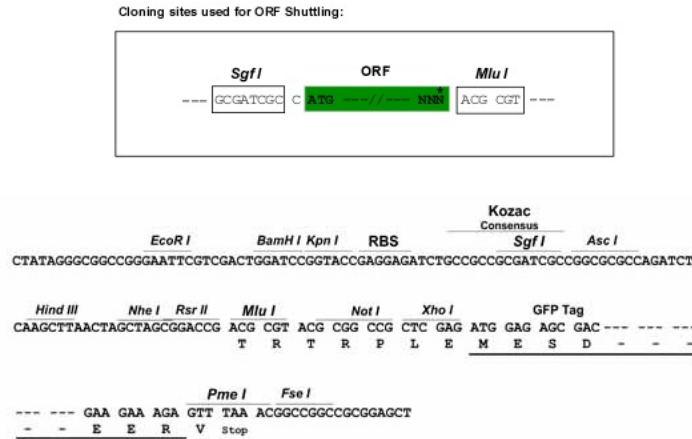
**Protein Sequence:** >MG202436 representing NM\_009940  
 Red=Cloning site Green=Tags(s)

MSAAGIAAAASVGRRLRTGVRRPFSEYGRGLIIRCHSSGMTLDNINRAAVDRIIRVDHAGEYGANRIYAGQ  
 MAVLGRTSVGPVIQKMWQEKHNLKKNELMIAFRVPTVLMPLWNVAGFALGAGTALLGKEGAMACTVA  
 VEESIANHYNNQIRMLMEEDPEKYEELLQVIKQFRDEELEHHDGLDHDDELAPAYALLKRIIQAGCSAA  
 IYLSERF

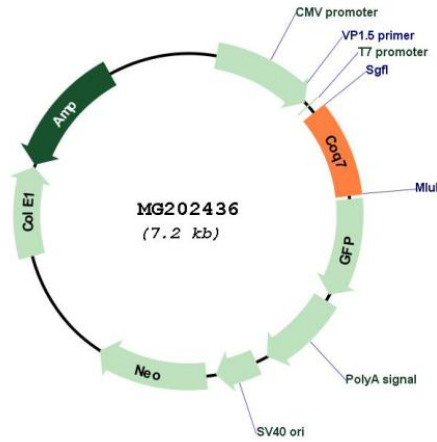
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_009940

**ORF Size:** 651 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_009940.3</a> , <a href="#">NP_034070.1</a>
<b>RefSeq Size:</b>	871 bp
<b>RefSeq ORF:</b>	654 bp
<b>Locus ID:</b>	12850
<b>UniProt ID:</b>	<a href="#">P97478</a>
<b>Cytogenetics:</b>	7 63.44 cM
<b>Gene Summary:</b>	Catalyzes the hydroxylation of 2-polyprenyl-3-methyl-6-methoxy-1,4-benzoquinol (DMQH2) during ubiquinone biosynthesis. Has also a structural role in the COQ enzyme complex, stabilizing other COQ polypeptides (By similarity). Involved in lifespan determination in a ubiquinone-independent manner (PubMed:19478076).[UniProtKB/Swiss-Prot Function]