

## Product datasheet for **RG209578**

### COQ9 (NM\_020312) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COQ9 (NM_020312) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COQ9
Synonyms:	C16orf49; COQ10D5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209578 representing NM_020312 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCGGCGGGCGGATCTGGTGGCCTTGCCGGGCGGGCTGGAGGCTCCTGCAGCTGCGATGCCTGC  
CCGTGGCCGTTGCCGACAAGCCCTGGTGCCGCTGCCTCCATGCTTCAGCTGTGGGGTAAGGTCTTC  
AGATGAGCAGAAGCAGCAGCCTCCCACTATTTCTCAGCAGCATTCTGAGACACAGGGGCAGAAAAA  
CCTGATCCAGAGTCTTCTCATTACCCCCAGGTATACAGACCAGGGCGGCGAGGAGGAGGACTATG  
AAAGTGAGGAGCAGTTGCAGCACCGCATCTGACGGCAGCCCTTGAGTTTGTGCCGCCACGGGTGGAC  
AGCAGAGGCGATTGCAGAAGGAGCCAGTCTCTGGGTCTCTCCAGTGCAGCAGCCAGCATGTTCCGGGAAG  
GATGGCAGTGAGCTAATACTGCATTTTGTGACCCAGTGAATACCCGGCTCACACGTGTGCTAGAAGAGG  
AGCAGAAGCTGGTACAGTTGGGCCAGGCGGAGAAGAGGAAGACAGACCAGTTCCTGAGGGATGCAGTGGA  
AACCAGACTGAGAATGCTGATCCCATACATTGAGCACTGGCCCGGGCCCTCAGCATCCTCATGCTCCCT  
CACAACATCCCGTCCAGCCTGAGCCTGCTCACCAGCATGGTGGATGACATGTGGCATTACGCTGGGGACC  
AGTCCACTGATTTAACTGGTACACCCGCGGAGCCATGCTGGCTGCCATCTACAACAACAGAGCTGGT  
GATGATGCAGGACTCCTCTCCAGACTTTGAGGACACTTGGCGCTTCTGGAAAACCGGGTTAATGATGCA  
ATGAACATGGGCCACACTGCCAAGCAGGTAAGTCCACAGGAGAGGCACTGGTGAAGGACTCATGGGTG  
CAGCAGTGACGCTCAAGAAGTGGACAGGCTAAACCAGCGTCGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209578 representing NM\_020312  
Red=Cloning site Green=Tags(s)

MAAAAVSGALGRAGWRLQLRCLPVARCRQALVPRAFHASAVGLRSSDEQKQPPNSFSQQHSETQGAEK  
 PDPESSHSPPRYTDQGGEEEDYESEEQLQHRILTAALFVPAHGWTAEATAEGAQSLGLSSAAASMFVK  
 DGSELILHFVTQCNTRLTRVLEEEQKLVQLGQAEKRKTDQFLRDAVETRLRMLIPYIEHWPRALSILMLP  
 HNIPSSLSLLTSMVDDMWHYAGDQSTDFNWTTRAMLAAIYNTTELVMQDSSPDFEDTWRFLERNRVNDA  
 MNMGHTAKQVKSTGEALVQGLMGAAVTLKNLTLGNQRR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020312

**ORF Size:** 954 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_020312.4](#)

**RefSeq Size:** 1638 bp

**RefSeq ORF:** 957 bp

**Locus ID:** 57017

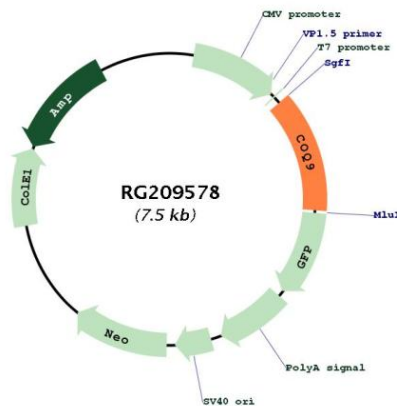
**UniProt ID:** [O75208](#)

**Cytogenetics:** 16q21

**Protein Families:** Druggable Genome

**Gene Summary:** This locus represents a mitochondrial ubiquinone biosynthesis gene. The encoded protein is likely necessary for biosynthesis of coenzyme Q10, as mutations at this locus have been associated with autosomal-recessive neonatal-onset primary coenzyme Q10 deficiency. [provided by RefSeq, Sep 2010]

**Product images:**



Circular map for RG209578