

Product datasheet for **SC201034**

COQ3 (NM_017421) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	COQ3 (NM_017421) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	COQ3
Synonyms:	bA9819.1; DHHBMT; DHHBMTASE; UG0215E05
ACCN:	NM_017421
Insert Size:	229 bp
Insert Sequence:	>SC201034 3'UTR clone of NM_017421 The sequence shown below is from the reference sequence of NM_017421. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC CCAGCTGTGCATGAAAAGCTGAAGAAATGAATTGTTTCTGAGAACTATAGTAATATGGCTTGATATCT GATGTTTTCAAATACAAAATGTACAATTTATCCTTTGAGAGAGAATCATGAAGAAAAGAAGGTCAATA AAAAGGGCTAAAACCTTGGACAAAAGTTTTGTTATTTTCGTCTAATAGCTACTTTCAAGGGATTCTGTG AATAAAAAGTTTTGTCAAGATA ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_017421.4



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Summary: Ubiquinone, also known as coenzyme Q, or Q, is a critical component of the electron transport pathways of both eukaryotes and prokaryotes (Jonassen and Clarke, 2000 [PubMed 10777520]). This lipid consists of a hydrophobic isoprenoid tail and a quinone head group. The tail varies in length depending on the organism, but its purpose is to anchor coenzyme Q to the membrane. The quinone head group is responsible for the activity of coenzyme Q in the respiratory chain. The *S. cerevisiae* COQ3 gene encodes an O-methyltransferase required for 2 steps in the biosynthetic pathway of coenzyme Q. This enzyme methylates an early coenzyme Q intermediate, 3,4-dihydroxy-5-polyprenylbenzoic acid, as well as the final intermediate in the pathway, converting demethyl-ubiquinone to coenzyme Q. The COQ3 gene product is also capable of methylating the distinct prokaryotic early intermediate 2-hydroxy-6-polyprenyl phenol.[supplied by OMIM, Mar 2008]

Locus ID: 51805

MW: 9.1