

## Product datasheet for SC201013

### COQ6 (NM\_182480) Human 3' UTR Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | 3' UTR Clones  |
| Product Name:             | COQ6 (NM_182480) Human 3' UTR Clone  |
| Symbol:                   | COQ6   |
| Synonyms:                 | CGI-10; CGI10; COQ10D6   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pMirTarget (PS100062)  |
| ACCN:                     | NM_182480  |
| Insert Size:              | 701 bp   |
| Insert Sequence:          | <p>&gt;SC201013 3'UTR clone of NM_182480</p> <p>The sequence shown below is from the reference sequence of NM_182480. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p> |

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GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAACGATCGCC
GAACAGATTATGGCCTTTGCAAGCAAATGAGTACTCCTCTCCTAAAGAAAGATTACGTTGATGAAAAAG
AACATCCTGCCAGGACCCATCATAATTTTCAAGATCTTATTTAATTTAATAAACTTACTTTACAT
TAAATTCTCTTTTCTTTGCTTAATGGCCTGTGGCACCCAAATAATGAATGATAATTTGCTGTG
AGGAGCGTATATTAGCCAGACCAAGGAAAAAACTTCGAAGGAAGACTTACAATTTGGTTGAAAAGAGC
TTTTTATTACTAAAAACCCACAAGGTGCTGTCTCACTCATTTCCAGTTAATCATTTCTAAAGAGAAAA
TTTACATTTTGTTTTGTTTTAATGTTGGTCATAAATTTATACAGTTGTTTTTGATAGAGGTAAGAAT
TAGACTCGATGCATTTTGTGTTAGATTGCTGTTTAAATGTTAACATCAGAATGCAAATTAATATAAAT
TGCTTTAACCTTTGTGTTACAGGTATACTGGACTTTCTGAAAGGAAAACAGGTCTCATTAATGCTAGTTA
TTACTTTATCACAGCACCAGATTTCCATTTATTTATGTTTCTCTCTGGGACACCACTGTCGGTTTAA
TAAACAATAAATAATTCATTGCACAGATCCGAAGACCTCAGGAACCAGATCACAAGGGAAACCGATTA
GCAGCAGAATT
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
```

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).


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|                    |   |
|--------------------|---|
| <b>Components:</b> | 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.  |
| <b>RefSeq:</b>     | <u><a href="#">NM_182480.3</a></u>  |
| <b>Summary:</b>    | The protein encoded by this gene belongs to the ubiH/COQ6 family. It is an evolutionarily conserved monooxygenase required for the biosynthesis of coenzyme Q10 (or ubiquinone), which is an essential component of the mitochondrial electron transport chain, and one of the most potent lipophilic antioxidants implicated in the protection of cell damage by reactive oxygen species. Knockdown of this gene in mouse and zebrafish results in decreased growth due to increased apoptosis. Mutations in this gene are associated with autosomal recessive coenzyme Q10 deficiency-6 (COQ10D6), which manifests as nephrotic syndrome with sensorineural deafness. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jun 2012] |
| <b>Locus ID:</b>   | 51004   |
| <b>MW:</b>         | 27.6  |