

## Product datasheet for **SC106137**

### COQ9 (BC001478) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COQ9 (BC001478) Human Untagged Clone
Tag:	Tag Free
Symbol:	COQ9
Synonyms:	C16orf49; coenzyme Q9 homolog; coenzyme Q9 homolog ( <i>S. cerevisiae</i> ); DKFZP434K046; DKFZp434K046
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC001478, the custom clone sequence may differ by one or more nucleotides

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GTGGACAGCAGAGGCGATTGCAGAAGGAGCCAGTCTCTGGGTCTCTCCAGTGCAGCAGCCAGCATGTTCC
GGGAAGGATGGCAGTGAGCTAATACTGCATTTTGTGACCCAGTGAATACCCGGCTCACAGTGTGCTAG
AAGAGGAGCAGAAGCTGGTACAGTTGGGCCAGGCGGAGAAGAGGAAGACAGACCAGTTCCCTGAGGGATGC
AGTGAAAACCAGACTGAGAATGCTGATCCCATACATTGAGCACTGGCCCCGGGCCCTCAGCATCCTCATG
CTCCCTCACAACTCCCGTCCAGCCTGAGCCTGCTCACCAGCATGGTGGATGACATGTGGCATTACGCTG
GGGACCAGTCCACTGATTTAACTGGTACACCCGCGAGCCATGCTGGCTGCCATCTACAACACAACAGA
GCTGGTATGATGCAGGACTCCTCTCCAGACTTTGAGGACACTTGGCGCTTCTGGAAAACCGGGTAAAT
GATGCAATGAACATGGGCCACACTGCCAAGCAGGTAAAGTCCACAGGAGAGGCACTGGTGAAGGACTCA
TGGGTGCAGCAGTGACGCTCAAGAACTTGACAGGTCTAAACCAGCGTCGGTGAGAGGAAGGGGTATAAGC
TACAATGCCTAGAAGAGAATGAGCGGACAGATTGAAAGAGCTTTGAAAAGTATAAGGTGCCATCCACATA
ACCTGGTGTTCACGAGAACAACACTAAAGGACTCCTGAGTCACTACCACAGCCACCTGGAAAACCAAGGC
ATTTGATGCTACCGTTCTGGTCAGGGATTGGGCTGCTTCTTCAAGTTCTAATACCAGACCAAGCCTCCTG
ATGCCTTTCTGCACTGCAACTGTGTGATTGAAAAATGAGATGTTCCATCCAAGCAGTCAAGCCACAGAAAAC
CCAGCATGTCCCTGTACAATCTCATGGGCACCTTGATCATGTCTAACCTTCCCTTAACCTTGGGGCTC
CCAAGCCAGAGTCAAGGTCTGACGCCACCTCAAGGTGACAGCTCATCTCCAGCACAGCACAGGCGTGTGC
ACACAGAGGTGTTCCCTTGACGCCCTCCCTCTCAGGTGTCTGAGATGCTGCTCCTGGGAGCCCCCTCA
GAAAACGCTCACCTGAGACAAGTGCTGCTGGACAGAGGTGATTCCAGGCTGGTGTGCATGACA
CCAGCATGCATTGCAGGATTATTAGTGTATTTGAGTCTGTAAAAATAATAAATATGTTTGAAGTAAAAA
AAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC001478 unedited TCAAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTTGGATA AGTGGTTCTACAGGAGTCTCTGGCCTGCTTTTCTCCTCCTTATCTGTGTTACCACTCTG GGTCTGAAAGGGTCTTCTCTGTTGAATGTCCTGACTGACCAGTTTCTGTTTCAGTGGCC CGTTGCCGACAAGCCCTGGTGCCGCGTGCCTTCCATGCTTCACTGTGGGGCTAAGGTCT TCAGATGAGCAGAAGCAGCAGCCTCCAACTCATTCTCAGCAGCATTCTGAGACACAG GGGGCAGAAAAACCTGATCCAGAGTCTTCTCATTACCCCCAGGTATACAGACCAGGGC GGCGAGGAGGAGGAGACTATGAAAGTGAGGAGCAGTTGCAGCACCGCATCCTGACGGCA GCCCTTGAGTTTGTGCCCGCCACGGGTGGACAGCAGAGGCGATTGCAGAAGGAGCCAG TCTCTGGGTCTCTCCAGTGCAGCAGCCAGCATGTTCCGGAAGGATGGCAGTGAGCTAATA CTGCATTTTGTGACCCAGTGCAATACCCGGCTCACACGTGTGCTAGAAGAGGAGCAGAAG CTGGTACAGTTGGGCCAGGCGGAGAAGAGGAAGACAGACCAGTTCCTGAGGGATGCAGTG GAAACCAGACTGAGAATGCTGATCCCATACATTGAGCACTGGCCCCGGTACCAAGTCTA TATCCAGGCCCCAGAGCAACAATAATCCTAATATTTATCATTCTCAGCACCTTTCACTCA GATGACTNTGTACTACTGTTCCAGAACTTAGCTTCTCATCTCTATAAACCCCGACATACTTA GTACACTTNGGTAAGCTGGTTTCAAACCTTGNACATACCAAAGAGAGTACTGAGCCCA TCTGTGCTCAAGTCTTGAATGTGAGTGGGCCGGTACTGGATCATCNCTGGGTGGGGT CTCCTNATGGCCTGATGTGCCACCACTGTCAGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	BC001478
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">BC001478.1</a></u> , <u><a href="#">AAH01478.1</a></u>
<b>RefSeq Size:</b>	1282 bp
<b>RefSeq ORF:</b>	336 bp
<b>Locus ID:</b>	57017
<b>Cytogenetics:</b>	16q21
<b>Protein Families:</b>	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]