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Product datasheet for SC319631

COQ6 (NM_182476) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COQ6 (NM_182476) Human Untagged Clone
Tag:	Tag Free
Symbol:	COQ6
Synonyms:	CGI-10; CGI10; COQ10D6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_182476.1
GTTCTGAGTGCGACGGCGCAGGTCTGCACCATGGCGGCCCGGCTTGTCAGCCGATGCGGG
GCTGTGCGTGCAGCTCCCCACAGCGGCCCGCTGGTGTCCTGGCGCAGGTGGTCCGGCGCC
TCAACAGACACCGTGTATGACGTGGTGGTGTCGGGTGGAGGCCTGGTGGGCGCTGCCATG
GCCTGTGCCTTGGGATATGATATTCACTTTCATGACAAGAAAATCCTGTTGCTCGAAGCA
GGTCCAAAGAAAGTACTGGAGAAATTGTCAGAAACTTACAGCAACAGGGTCAGCTCCATT
TCCCCTGGCTCTGCAACGCTTCTCAGTAGTTTTGGTGCCTGGGACCATATCTGCAACATG
AGATACAGAGCCTTTCGGCGAATGCAGGTGTGGGACGCCTGCTCAGAGGCCCTGATAATG
TTTGATAAGGATAATTTAGATGACATGGGCTATATCGTGGAGAATGATGTCATCATGCAT
GCTCTCACTAAGCAGTTGGAGGCTGTGTCTGACCGAGTGACGGTTCTCTACAGGAGCAAA
GCCATTCGCTATACCTGGCCTTGTCCATTTCCTATGGCCGACTCCAGCCCTTGGGTTCAT
ATTACCCTAGGTGATGGCAGCACCTTCCAGACCAAATTGTTGATAGGTGCAGATGGTCAC
AACTCCGGAGTACGGCAGGCTGTTGGAATCCAGAATGTGAGCTGGAACTATGACCAGTCT
GCTGTTGTGGCTACTCTGCATTTATCAGAGGCCACAGAAAACAACGTAGCCTGGCAGAGA
TTTCTTCCCTCTGGGCCTATTGCTCTGCTCCCGCTCTCAGACACCTTGAGTTCCTTGGTT
TGGTCCACGTCCCATGAACATGCAGCAGAGCTAGTTAGCATGGATGAGGAAAAATTTGTG
GATGCCGTTAACTCTGCCTTTTGGAGTGATGCTGACCACACGGACTTCATCGACACAGCT
GGTGCCATGCTGCAGTATGCTGTCAGCCTTCTGAAGCCCACTAAGGTCTCGGCTCGCCAG
CTGCCCCCAAGCGTAGCCAGGGTGGATGCCAAAAGCCGAGTTCTGTTTCCTCTTGGGTTG
GGACATGCTGCTGAGTACGTCAGGCCTCGGGTGGCGCTCATTGGGGATGCAGCCCACAGA
GTCCATCCGCTTGCAGGACAGGGTGTCAACATGGGCTTTGGGGATATCTCCAGCTTGGCC
CATCACCTCAGTACGGCAGCCTTCAATGGGAAGGACTTAGGTTCCGTGAGCCACCTCACA
GGTTATGAAACAGAAAGACAGCGTCACAACACTGCTCTTCTGGCTGCTACAGACTTACTA
AAAAGGCTCTATTCTACCAGTGCCTCCCCGCTTGTGTTGCTCAGGACGTGGGGCTTGCAG
GCCACAAATGCAGTGTCTCCACTCAAAGAACAGATTATGGCCTTTGCAAGCAAATGAGTA
CTCCTCTCCTAAAGAAAGATTACGTTGATGAAAAAGAACATCCTGCCCAGGACCCATCAT
ACATATTTTCAAGATCTTATTTAATTTAATAAACTTACTTTACATTAAAAAAAAAAAAAA
AAAA
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Restriction Sites: Please inquire

ACCN: NM_182476

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
RefSeq:	NM_182476.1, NP_872282.1
RefSeq Size:	1609 bp
RefSeq ORF:	1407 bp
Locus ID:	51004
UniProt ID:	Q9Y2Z9
Cytogenetics:	14q24.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Ubiquinone and other terpenoid-quinone biosynthesis
Gene Summary:	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] Transcript Variant: This variant (1) encodes the longer isoform (a).