

## Product datasheet for **SC323737**

### CYC1 (NM\_001916) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CYC1 (NM\_001916) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CYC1  
**Synonyms:** MC3DN6; UQCR4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001916.2  
CAAGATGGCGGCAGCTGCGGCTTCGCTTCGCGGGTAGTGTGGGCCCGGGGGCGCGGG  
GCTCCCGGGCGCGCTGCCCGGGTCTGCTGTGCAGCGCGGCCCGGGCAGCTCCCGCT  
ACGGACACCTCAGGCAGTGGCCTTGTCTCGTGAAGTCTGGCCTTTCCCGAGCCGAAAGT  
GATGCTGTGAGCCTGGGCATGCTGGCGCAGGGGTGCGGGGCTGGCCGTGGCTCTGCA  
TTCGGCTGTGAGTGCCAGTGACCTGGAGCTGCACCCCCCAGCTATCCGTGGTCTCACCG  
TGGCCTCTCTTCTTGGACCACACCAGCATCCGGAGGGTTTCCAGGTATATAAGCA  
GGTGTGCGCCTCCTGCCACAGCATGGACTTCGTGGCTACCGCCACCTGGTGGCGTGTG  
CTACACGGAGGATGAAGCTAAGGAGCTGGCTGCGGAGGTGGAGTTCAAGACGGCCCCAA  
TGAAGATGGGGAGATGTTTCATGCGGCCAGGGAAGCTGTTGCGACTATTTCCAAAACCATA  
CCCCAACAGTGAGGCTGCTCGAGCTGCCAACACGGAGCATTGCCCCCTGACCTCAGCTA  
CATCGTGCAGCTAGGCATGGTGGTGGAGACTAGTCTTCTCCCTGCTCACGGGCTACTG  
CGAGCCACCCACCGGGGTGCACTGCGGGAAGGTCTCTACTTCAACCCCTACTTTCTGG  
CCAGGCCATTGCCATGGCCCTCCCATCTACACAGATGTCTTAGAGTTTGACGATGGCAC  
CCCAGCTACCATGTCCCAGATAGCCAAGGATGTGTGCACCTTCTCTGCGTGGGCATCTGA  
GCCAGAGCAGCACCATCGAAAACGCATGGGGCTCAAGATGTTGATGATGATGGCTCTGCT  
GGTGCCCTGGTCTACACCATAAAGCGGCACAAGTGGTCAAGTCTGAAGAGTCGGAAGCT  
GGCATATCGGCCGCCAAGTACCCTGTCCAGTGTCTGCTTGGCATCCTGCCAGAACAGG  
CCCTCAAGCCCAAGAGCCATCCCAGGCCCTTTCAGGCCCTAGCTAAGCCTCTCTTTCATCT  
GGAAGAAGAGGCAAGGGGCGAGGAGACCAGGCTCTAGCTCTGGGCCCTCCTTCAGCCCCC  
ATCATGGGAATAAATTAATTTTCTCAATGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AA  
AAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT  
**ACCN:** NM\_001916



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<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>OTI Annotation:</b>	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.
<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="#">NM_001916.2</a></u> , <u><a href="#">NP_001907.2</a></u>
<b>RefSeq Size:</b>	1273 bp
<b>RefSeq ORF:</b>	978 bp
<b>Locus ID:</b>	1537
<b>UniProt ID:</b>	<u><a href="#">P08574</a></u>
<b>Cytogenetics:</b>	8q24.3
<b>Domains:</b>	Cytochrome_C1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>Gene Summary:</b>	This gene encodes a subunit of the cytochrome bc1 complex, which plays an important role in the mitochondrial respiratory chain by transferring electrons from the Rieske iron-sulfur protein to cytochrome c. Mutations in this gene may cause mitochondrial complex III deficiency, nuclear type 6. [provided by RefSeq, Dec 2013]