

## Product datasheet for SC118940

### 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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118940 sequence for NM_001916 edited (data generated by NextGen Sequencing)

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ATGGCGCAGCTGCGGCTTCGCTTCGCGGGGTAGTGTTGGCCCCGCGGGCGCGGGGCTC
CCGGGCGCGCGTCCCGGGTCTGCTGTGCAGCGCGCGGCCCGGGCAGCTCCCGCTACGG
ACACCTCAGGCAGTGGCCTTGTCTGCGAAGTCTGGCCTTCCCGAGGCCGAAAGTGATG
CTGTGAGCTGGGCATGCTGGCGGCAGGGGTGCGGGGCTGGCCGTGGCTCTGCATTGCG
GCTGTGAGTGCCAGTGACCTGGAGCTGCACCCCCCAGCTATCCGTGGTCTCACCGTGGC
CTCCTCTTCTTGGACCACACCAGCATCCGGAGGGTTCCAGGTATATAAGCAGGTG
TGCGCCTCCTGCCACAGCATGGACTTCGTGGCCTACCGCCACCTGGTGGGCGTGTGCTAC
ACGGAGGATGAAGCTAAGGAGCTGGCTGCGGAGGTGGAGGTTCAAGACGGCCCCAATGAA
GATGGGGAGATGTTTCATGCGGCCAGGGAAGCTGTTGCGACTATTTCCAAAACCATACCCC
AACAGTGAGGCTGCTCGAGCTGCCAACACGGAGCATTGCCCCCTGACCTCAGCTACATC
GTGCGAGCTAGGCATGGTGGTGAGGACTACGTCTTCTCCCTGCTCACGGGCTACTGCGAG
CCACCCACCGGGGTGCACTGCGGGAAGGTCTCTACTTCAACCCCTACTTTCTGGCCAG
GCCATTGCCATGGCCCCCTCCCATCTACACAGATGTCTTAGAGTTTGACGATGGCACCCCA
GCTACCATGTCCCAGATAGCCAAGGATGTGTGCACCTTCTGCGCTGGGCATCTGAGCCA
GAGCACGACCATCGAAAACGCATGGGGCTCAAGATGTTGATGATGATGGCTCTGTGGTG
CCCCTGGTCTACACCATAAAGCGGCACAAGTGGTCAGTCTGAAGAGTCGGAAGCTGGCA
TATCGGCCGCCAAGTGA

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Clone variation with respect to NM\_001916.3  
99 t=>g



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001916 unedited</p> <pre>CCGTCGGATTTGTATACGATTCACTATAGGCGGCCGCAATTCGCACGAGGCGCGGAGGA GGCCAAGATGGCGGCAGCTGCGGCTTCGCTTCGCGGGGTAGTGTGGGCCCGCGGGGCGC GGGGCTCCCGGGCGCGCTGCCCGGGTCTGCTGTGCAGCGCGCGGCCCGGGCAGCTCCC GCTACGGACACCTCAGGCAGTGGCCTTGTCTCGAAGTCTGGCCTTCCCGAGGCCGGAA AGTGATGCTGTACAGCGCTGGGCATGCTGGCGGCAGGGGGTGGCGGGCTGGCCGTGGCTCT GCATTGCGCTGTGAGTGCCAGTGACCTGGAGCTGCACCCCCCAGCTATCCGTGGTCTCA CGGTGGCCTCCTCTCTTCTTGACCACACCAGCATCCGGAGGGGTTTCCAGGTATATAA GCAGGTGTGCGCCTCCTGCCACAGCATGGACTTCGTGGCCTACCGCCACCTGGTGGGCGT GTGCTACACGGAGGATGAAGCTAAGGAGCTGGCTGCGGAGGTGGAGGTTCAAGACGGCCC CAATGAAGATGGGGAGATGTTTCATGCGGCCAGGGAAGCTGTTGACTATTTCCAAAACC ATACCCCAACAGTGAGGCTGCTCGAGCTGCCAACACGGAGCATTGCCCCCTGACCTCAG CTACATCGTGCAGCTAGGCATGGTGGTGGAGACTACGCTTCTCCCTGCTCACGGGCTA CTGCGAGCCACCCACGNNGTGCTACTGCNNGGAAGGTCTACTTCAACCCCTACTTTC CTGGCCAGGCCATTGCCATGGCCCTCCCACTACACAGATGCCTAAAAGTTTGACGATGG CACCCAGCTACCATGTCNCCAGATAGCCAAGTATGTGTGCACCTTCTCTGCG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001916 unedited</p> <pre>GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTACACTTGAAAAAATTAATTTATT CCCATGATGGGGCGTGAAGGAGGGCCAAAGCTAGAGCCTGGTCTCCTGCCCCCTTGCC TCTTCTCCAGATGAAGAGAGGCTTAGCTGAGGCCTGAACAGGCCTGGGATGGCTCTTGG GCTTGAGGGCCTGTTCTGGCAGGATGGCAAGCAGACACTGGACAGGGTCACTTGGGCGGC CGATATGCCAGCTTCCGACTCTTCAGGACTGACCCTTGTGCCGCTTATGGTGTAGACC AGGGGCACCAGCAGAGCCATCATCATCAACATCTTGAGCCCATGCGTTTTTCGATGGTCG TGCTCTGGCTCAGATGCCAGCGCAGGAAGGTGCACACATCCTTGCTATCTGGGACATG GTAGCTGGGGTGCCATCGTCAAACCTCTAAGACATCTGTGTAGATGGGAGGGGCCATGGCA ATGGCCTGGCCAGGAAAGTAGGGGTTGAAGTANAGACCTTCCCGCAGTGACACCCCGGTG GGTGGCTCGCAGTANCCCGTGAGCAGGGGAGAAGACGTAGTCTCACCCACCATGCCTAGCT CGCAGCATGTANCTGAGGTGAGGGGGCATGCTCCGTTGTTGGCAGCTCGAGCAGCTCA CTGTTGGGGTATGGGTTTGGAAAATAATCGACAGCTTCCCTGGCCATGAACATCTTCC CATCTTTCATGGGGCGGCTTGAACCTTACCTCCCGAGCCAGGTCCTTTAATTTATCCC TCGGGGACCCCCCACCAGGTGGGGGGAAGCCACAAATCCTTGCGTGGGAAGGGGG CCCCCCTGTTTATACCCTGGGAACCCTCCGGAGCCCGGTGGGCCAAGGGAAGG GGGGCCCGGGACACCCATTTTTGGGGGGGGCA</pre>
<b>Restriction Sites:</b>	ECORI-NOT
<b>ACCN:</b>	NM_001916
<b>Insert Size:</b>	1500 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>	<a href="#">NM_001916.2</a> , <a href="#">NP_001907.2</a>
<b>RefSeq Size:</b>	1273 bp
<b>RefSeq ORF:</b>	978 bp
<b>Locus ID:</b>	1537
<b>UniProt ID:</b>	<a href="#">P08574</a>
<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]