

Product datasheet for SC113344

Cytochrome C (CYCS) (NM_018947) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome C (CYCS) (NM_018947) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome C
Synonyms:	CYC; HCS; THC4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113344 sequence for NM_018947 edited (data generated by NextGen Sequencing)

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ATGGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAAGTGTCCAGTGCCACACC
GTTGAAAAGGGAGGCAAGCACAAGACTGGGCCAAATCTCCATGGTCTCTTTGGGCGGAAG
ACAGGTACAGGCCCTGGATACTTTACACAGCCGCAATAAGAACAAGGCATCATCTGG
GGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAA
ATGATCTTTGTCCGCAATTAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAA
AAAGCTACTAATGAGTAA
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Clone variation with respect to NM_018947.5

5' Read Nucleotide Sequence: >OriGene 5' read for NM_018947 unedited

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CCGTCACATTTGTATACGATCATATAGGCGGCCGCGCAATTCGCACGAGGCCGGCTTCGG
AGCGGGAGTGTTCTGTTGCCAGCGACTAAAAACAGAATTAATATGGGTGATGTTGAGA
AAGGCAAGAAGATTTTTATTATGAAGTGTCCAGTGCCACACCGTTGAAAAGGGAGGCA
AGCACAAGACTGGGCCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTGAGGCCCTG
GATACTTTACACAGCCGCAATAAGAACAAGGCATCATCTGGGAGAGGATACACTGA
TGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAAATGATCTTTGTCCGCA
TTAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAAGCTACTAATGAGT
AATAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTG
TACCATCCTTTAATAGATCTCATACACCAGAATTCAGATCATGAATGACTGACAGAATAT
TTTGTGGGCGAGTCTGATTTAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTCAG
TTTTTGAATTTAATAGTAACTCCAATTCAGTAAATGGTATCACTGTTTACCCCTTTTAA
AGATATGATTAGACTTCGTTAGTAAATGTTCAACTTTTACAAAAGATGGTGAAGTCCATCT
TAAACTTACTGGAGATTGGTTTTATATTTAGATTTATATAACTGGTTATGTGAATATAT
TTAAACTGGGNGAAATTTGCTTCACTGTCTTAGCACCAAGCAGAATCACCTGTGTTNT
GGNGTCATGTTTCATTTGCCTCTTAAGGCTAGGGTGCAGATAATAAGTACCAT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018947 unedited GGGCCAGGTAAGGCACTGGGGAGGGGTCACAGGATGCCACCCGGGATCTGTTCAGGAAAC AGCTATGACCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCATGATCTGT GGTTTTCTTTTAATTATCTTTAGTCTTTGTGATCACACATAATTTAAAAATTTGTGTATA TCTCCGTTACTTTAATCCTTTTAAGTTGGCAAAAGCACCATTCCAATCAAATACACAGT TCTACAGTTTTGTTTCTGAATGGCTGTTTAAAGACAATCCTAAATTATAACTTAGTTTGA CTTAGATTGTAAGAATTCAAGAGTGAAGTTTAACTTGCTACTATTTAAAAAGCATGTGA CCTTATAGATCTGTAAGATGTGAGAGGTGTTGAATAATCTTTAATATTACACATAAACCA CACTAAAATGCCTTTCAATAAGTAAAAGAAACCATTTTAAATACAGGGAATTATAATTAG ATTGGCATAGTTAAGGCCAAAACATAGACATTGCTACCTTATTTATCTTCAACCCTTGC CTTTAAGAGGCAAATGAACATGAACACAAAACACAGGTGAATCTTGCTTGGTTCTAAGAC AGTGAAGCANTTTCCCAGTATTTAAATATATTACATAACCAGTTATATAAATCTAANA TATAAACCAATCTCCAGTAAGTTTTAAGATGCACTCACCATCTTTGTGAANAAGTGACAT TACTANCGAAGTCTAATCATATCTTTAAGGGGNTAANCAGTGATACCATTTACTGATTT GGAGTTTACTATAAANATCANAACTGGACATATTATTTAACCCAGCCAGTTCTTAGTT TAATCAGGACTGCCCCACAAATATCTGNCAGCATTGATGATCTGAATTCTGTGTTTGAAG ATCATTAAAGGATGCTACCACTANAAGTCTGAACCATTCTGTTTGTATAAAAATAGGCNT GCCCATATACTCATTANAAGCTTTTGGAAAAGCTATTAGNCTGCCCTTCTTCTTTCTTTA TGCCACAGATACATTTTGTCCAGGGAG
Restriction Sites:	NotI-NotI
ACCN:	NM_018947
Insert Size:	1330 bp
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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_018947.4</u> , <u>NP_061820.1</u>
RefSeq Size:	5518 bp
RefSeq ORF:	318 bp
Locus ID:	54205
UniProt ID:	<u>P99999</u>
Cytogenetics:	7p15.3

Domains:	cytochrome_c
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Huntington's disease, p53 signaling pathway, Parkinson's disease, Pathways in cancer, Small cell lung cancer, Viral myocarditis
Gene Summary:	This gene encodes a small heme protein that functions as a central component of the electron transport chain in mitochondria. The encoded protein associates with the inner membrane of the mitochondrion where it accepts electrons from cytochrome b and transfers them to the cytochrome oxidase complex. This protein is also involved in initiation of apoptosis. Mutations in this gene are associated with autosomal dominant nonsyndromic thrombocytopenia. Numerous processed pseudogenes of this gene are found throughout the human genome.[provided by RefSeq, Jul 2010]