

Product datasheet for **SC316637**

Cytochrome b5 (CYB5A) (NM_001914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome b5 (CYB5A) (NM_001914) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome b5
Synonyms:	CYB5; MCB5; METAG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001914 edited
GGGGAATGTCCCGGGTGGAGCTGGCTGAGTCGCGCGCTCTGCTCCACCCGACGGGGCTGT
GTGTGCTGGGCTGGCTCGCGGCAACCGAGATGGCAGAGCAGTCGGACGAGGCCGTGAA
GTACTACACCCTAGAGGAGATTCAAGCACAACCACAGCAAGAGCACCTGGCTGATCCT
GCACCACAAGGTGTACGATTTGACCAAATTTCTGGAAGAGCATCCTGGTGGGAAGAAGT
TTTAAGGGAACAAGCTGGAGGTGACGCTACTGAGAACTTTGAGGATGTCGGGCACTCTAC
AGATGCCAGGGAAATGTCCAAAACATTCATCATTGGGGAGCTCCATCCAGATGACAGACC
AAAGTTAAACAAGCCTCCGGAACCTTAAAGGCGGTGTTTCAAGGAACTTTATCACTAC
TATTGATTCTAGTTCCAGTTGGTGGACCAACTGGGTGATCCCTGCCATCTCTGCAGTGGC
CGTCGCCCTTGATGTATCGCCTATACATGGCAGAGGACTGAACACCTCCTCAGAAGTCAGC
GCAGGAAGAGCCTGCTTTGGACACGGGAGAAAAGAAGCCATTGCTAACTACTTCAACTGA
CAGAAACCTTCACTTGAAAACAATGATTTTAATATATCTCTTTCTTTTCTCCGACATT
AGAAACAAAACAAAAGAAGCTGCTTTTCTGCGCTCAAATTTTTCGAGTGTGCCTTTTTA
TTCATCTACTTTATTTTGATGTTTCCTTAATGTGTAATTTACTTATTATAAGCATGATCT
TTTAAAAATATATTTGGCTTTTAAAGTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001914

Insert Size: 800 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).



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OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001914.2.
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:	NM_001914.2 , NP_001905.1
RefSeq Size:	844 bp
RefSeq ORF:	297 bp
Locus ID:	1528
UniProt ID:	P00167
Cytogenetics:	18q22.3
Domains:	heme_1
Protein Families:	Transmembrane
Gene Summary:	<p>The protein encoded by this gene is a membrane-bound cytochrome that reduces ferric hemoglobin (methemoglobin) to ferrous hemoglobin, which is required for stearyl-CoA-desaturase activity. Defects in this gene are a cause of type IV hereditary methemoglobinemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (2) has an additional exon in the 3' coding region, which introduces a stop codon, as compared to variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, as compared to isoform 1.</p>