

Product datasheet for **SC102219**

Cytochrome b5 (CYB5A) (AK026310) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome b5 (CYB5A) (AK026310) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome b5
Synonyms:	CYB5; MCB5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK026310, the custom clone sequence may differ by one or more nucleotides

```
GAGTCGCGCGCTCTGCTCCACCCGACGGGGCTGTGTGTGCTGGGCTGGCTCGCGGCGAACCAGATGGC
AGAGCAGTCGGACGAGGCCGTGAAGTACTACACCCTAGAGGAGATTGAGAAGCACAACCACAGCAAGAGC
ACCTGGCTGATCCTGCACCACAAGGTGTACGATTTGACCAAATTTCTGGAAGAGCATCCTGGTGGGGAAG
AAGTTTTAAGGGAACAAGCTGGAGGTGACGCTACTGAGAACTTTGAGGATGTCGGGCACTCTACAGATGC
CAGGGAAATGTCCAAAACATTCATCATTGGGGAGCTCCATCCAGATGACAGACCAAAGTTAAACAAGCCT
CCGGAAACTCTTACTACTATTGATTCTAGTCCAGTTGGTGGACCAACTGGGTGATCCCTGCCATCT
CTGCAGTGGCCGTCGCCTTGATGTATCGCCTATACATGGCAGAGGACTGAACACCTCCTCAGAAGTCAGC
GCAGGAAGAGCCTGCTTTGGACACGGGAGAAAAGAAGCCATTGCTAACTACTTCAACTGACAGAAACCTT
CACTTGAAAACAATGATTTTAATATATCTTTCTTTTCTCCGACATTAGAAAACAAAACAAAAGAAC
TGTCTTTCTGCGCTCAAATTTTCGAGTGTGCCTTTTATTTCATCTACTTTATTTTGATGTTTCCTTAA
TGTGTAATTTACTTATTATAAGCACGATCTTTTAAAAATATATTTGGCTTTTAAAGTAAAAAAAAAAAAA
AAAAAAAAAAAAA
```



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for AK026310 unedited</p> <pre> AGGGGGCATATTAGGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGCGCGC GCTCTGCTCCACCAGGGGCTGTGTGTGCTGGGCTCGCGGCGAACCGAGATGGCA GAGCAGTCGGACGAGGCCGTGAAGTACTACACCCTAGAGGAGATTGAGAACCAACCAC AGCAAGAGCACCTGGCTGATCCTGCACCACAAGGTGTACGATTTGACCAATTTCTGGAA GAGCATCCTGGTGGGGAAGAAGTTTTAAGGGAACAAGCTGGAGGTGACGCTACTGAGAAC TTTGAGGATGTCGGGCACTCTACAGATGCCAGGAAATGTCCAAAACATTCATCATTGGG GAGCTCCATCCAGATGACAGACCAAGTTAAACAAGCCTCCGAAAACCTTATCACTACT ATTGATTCTAGTTCAGTTGGTGGACCAACTGGGTGATCCTGCCATCTCTGCAGTGCC GTCGCCTTGATGTATCGCCTATACATGGCAGAGGACTGAACACCTCCTCAGAAGTCAGCG CAGGAAGAGCCTGCTTTGGACACGGGAGAAAAGAAGCCATTGCTAACTACTTTAACTGAC AGAAACCTTCACCTGAAAACAATGATTCTAATATATCTCTTTCTTTTCTCCGACATTA GCAACAAAACAAAAGAAGTGCCTTTCTGCGCTCAAATTTTTGAGTGTGCCTTTTTAT TAATCTACTCTATTTTTGATGGTTTCCTTTATGCGGAAATTAATTATTATAAGCCATGAC CTTTAAAAAATTTATTGGCTTTTAAATCCANNAAAAATTTCTATACCATTCTCCACT AAACTCATATACAANTTAAACAACAAAATAACCTCTCCTCTTAAATGGGCGGCGCGTC TATTTGTTTTCTCAAAAAAACCGGGGAATCCCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for AK026310 unedited</p> <pre> ATCTAGAGTCGAGTTTTNTTT TTTTTTTTTTTTTTTTTAACTTTAAACCCAAATTTTTTTTTAAAAAACTTGCTTTT AATAAGTAAATCCCCTTAGGGAACTTCAAAATAAAGTTATTAATAAAAGGGCCCCC TTTAAAAATTTGACCCAAAAAGGACAGTTTTTTTTGTTTTGTTTCAAAGGGGGAAAA AAAAAAAAAAATTTTTAAATTTTTTTTTTAAAAAAAAGTTTTTCCATTTAAAATA TTTAAATTTGGTTTTTTTTTCCCGGGCCAAAAAAGTTTTTTTTGCCTTAATTTTTGA GGAGGGTTACCCCTTTGCCTTTTTTAGGCAACCTAAAGGCGACGGCCACTTCAAAA ATGGCAGGGATCCCCCGTTGGGCCCCACTTGGAACTAAATCAATAGTGGGGATAAAA ATTTCCGGAGGCTTGTTAAACTTTGGGCTGCCCTCGGGAGGGACCTCCCAAGAAAAAG GTTTTGAATTTCCCTGCCTTTGGAAAAGGGCCAATCTCTAAATTTTAGTAGGTAC CCTCCATTTGTTCTTAAATTTTTTCCCCAGAAAGTTTTTCAAATTTGGCAAATCAA CCTTTTGGGAAAAACACCACGGTTTTTTGTGGTTGTTTTTAAATCCCTTTAGGGGG GAAATTTAGGCCTTTTTCACTGTTTCCATTCTGGTCGCACGACCGTCCCAACAAAAT TCTTGGGGAAAAAACCCGCCCTTGCCAATTTGGGCCCTTAAGGAGTTTTTTCAAT TTTGCGGTCCAAAAACACTTTTATTTACTCTCCCCGCCCCACCCCTTTGGTCCGCG GGGTTTTTCCACTTTGGAATCCCTTTTTTTCGAAAAACATCTTGCTACGGGGGGACC TTAATCTCGCACCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	AK026310
Insert Size:	840 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:

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: [AK026310.1](#)

RefSeq Size: 784 bp

RefSeq ORF: 784 bp

Locus ID: 1528

Cytogenetics: 18q22.3

Domains: heme_1

Protein Families: Transmembrane

Gene Summary: 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]