

## Product datasheet for **SC217091**

### **CYB5R3 (NM\_000398) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	CYB5R3 (NM_000398) Human 3' UTR Clone
Symbol:	CYB5R3
Synonyms:	B5R; DIA1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000398
Insert Size:	1963 bp



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**Insert Sequence:** >SC217091 3'UTR clone of NM\_000398  
 The sequence shown below is from the reference sequence of NM\_000398. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CACCCACGGAGCGCTGCTTCGTCTTCAGAGGCCGGGCACGGTACACGGCCACCCGCCCGCGCACC
CCACGCCCTGTTACGCTCACCCAGTCACCTCCCCACATCGCACACTGGGGCCCCGGGTTACGCTGGC
CTGCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCTGGAGCCCTTCGGGAGCAGGGCTGTGT
CCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCTGCCTGGCACTTACTGGTCTTACCAGAGACG
CCCAGCCCCATCCCTGTCTCATGACCCCTCGTCCACCCCCACACACTATAAGGCTGAGGGCTGCC
AGCAGCCCCGTGCCCACCATTCCGGCCGTGGACCATAGTCGGATGTGAGCAGACACACATGGGCA
GCCCAAAGCTGCAGGTGCCAGGGCCACCCAGCCTCGCCTGTCACCCCACTCCCGCTCAGGGCCAG
GCCCAGGCCTCACCACTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGCACTGTCTC
CTACCCAGGGCCCTGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCC
ATGGGGCCCTCCAGAACCTCAGCATTTCTTCCAGCCATCAAACACTGAGGCAGCCTTGGGGAACC
CCGAGCTGGGGGTTGGCAGCCACTGCACCGCTCAGGGTTTTGGGGTCTGGGCTGGGGCCACCATC
CCTGATGGCAGAACTCCCAACACATGTATTTATTCCTCTGTCTAAACCGTCCCTCCTTCCCTCA
CCCCAGCACAGGGGATTCTGAGCAGTGCCTCTTGTCTGAGGGACATATCAGTGACCTCGACGTTGCC
TTTAGACTACAGTTGTGTAGCCTCTTGCATTTGGCTTTTTTTCAGAGTCATTTATGAGCAGAAAAAAA
AAAGTAAACTTTGCTAATTAACCTTCTCTAGCTCCTCGAGGGTCTGTGACCTGCAACACAAGGGG
TGGGGTCAGGAAAGGGCTGGGGAAGACCTAGCATTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGCGGAG
TCTCCCTTTGTACCCAGGCTGGAGTGGCATGATCTCAGCTCACTACAACCTCCACCTCTCGGGTTCAA
GCGATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGACTAAAAGTGCCACCACCACCCAGCTAGTTT
TTGATTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGG
GATCTCGGCTCACTGCAAGCTCCGCCTCCCGGTTACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACTACAGCGCCCGCCACTACGCCGGCTAATTTTTTTGATTTTTTAGTAGAGACGGGGTTTACC
GTTTTAGCCGGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCGCTCGGCCTCCCAAAGTCTGGG
ATTACAGCGGTGAGCCACTGCGCCCGCTCCAGCATTATTTCTGATGTATCTTTGTGGTAGAAAAATTT
GGAAAGTGACAGAAAGTATACACAGGAAGAAAAATCCCAACCCAGAGGCAAAACCAGCTGAAACCAC
GCAACCCAGTACCCCAATGCACCGCAGGCTGCTGCCTCCTGTGAGGTCAGATGAGCCTCGAGGCT
CAGGAAAGTCAGAGGATGCCATCTGCATGGTGGTAAATTACAGAGGTGATGAGGCAAGGTGGGTGTGGG
GCTGTTCTTAAAACGGGGCAGCAGGAAGCCCCAAGGAGATGGATTTGGGCTGGGACGGGAAGAGAGAG
CTGGCCATGCTGGGGTGGGTGGGTGTTCAAATGGTGGAACAGCAGACGCAAAAGGCCCTGCCGTTGGA
CCAGCTTGTGGAATAAACTTTCAGAAACAGA
ACGCGTAAAGCGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000398.7](#)

**Summary:**

This gene encodes cytochrome b5 reductase, which includes a membrane-bound form in somatic cells (anchored in the endoplasmic reticulum, mitochondrial and other membranes) and a soluble form in erythrocytes. The membrane-bound form exists mainly on the cytoplasmic side of the endoplasmic reticulum and functions in desaturation and elongation of fatty acids, in cholesterol biosynthesis, and in drug metabolism. The erythrocyte form is located in a soluble fraction of circulating erythrocytes and is involved in methemoglobin reduction. The membrane-bound form has both membrane-binding and catalytic domains, while the soluble form has only the catalytic domain. Alternate splicing results in multiple transcript variants. Mutations in this gene cause methemoglobinemias. [provided by RefSeq, Jan 2010]

**Locus ID:**

1727

**MW:**

71.6