

## Product datasheet for **SC215039**

### **CYP51A1 (NM\_000786) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	CYP51A1 (NM_000786) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CYP51A1
Synonyms:	CP51; CYP51; CYPL1; LDM; P450-14DM; P450L1
ACCN:	NM_000786
Insert Size:	1542 bp



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**Insert Sequence:** >SC215039 3'UTR clone of NM\_000786  
 The sequence shown below is from the reference sequence of NM\_000786. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTTATCCGTTACAAACGAAGATCAAAAATGAAAAAGTTGCAAGGAACGAATATATGTGATTACTACTGT
AAGCCACAAAGGCATTGGAAGAGAAATGAAGGTACAAAACAACTCTTGTAGTTTACTGTTTTTTAAGT
GTGTAATTCTAAAAGCCAGTTTATGATTTAGGATTTTGTAACTGAATGGTTCTATCAAATATAATAGC
ATTTGAAACATTTTCTAATAGTTATGATACTTATACATGTGCTTTCAGGAAGTTCCTTGGTGAAACAAT
TGTTGAGGGGGGATCTAGGTAATTGGCAGATTCTAAATAATATAATTTCCAGATAGTAATTTAAGAGT
ACTCATCGCTCTTGCCAAATAAGTTCAGGGTATTCAAATCTTGGACTAGTCTGCAAGGTATAAAGAAAT
AAAAATCCAGTGAGATACTTGGAAACCACAGTTTATTATTATTTATCTGGGCAATTATTGTGTGTGTG
AGGATGGAAGGGTAGGGAATAATCGAACATCTAAAGCCTTGAATAAGAGAATACTAATTGTTTTGGTAT
GATGATACTCAGAAATGGAGATATTATAGGAAAAAGAAATCCTTTGGAATTTAACTAAAATCAGTGCAT
TATGGGAAATTAAGAGATCCAGGACCATATTTGATAAGAGTTCCTAAAAATAATGTAATTATTAATGCT
AAAGACTGCTCATGTATCTTGATCTAATTAATAATAATTACATATTTTACCTGATAAATATGTAT
CTAGTTTACAAGGTCACATTTATGTGGAAGTCCAAAGTCAAGTCCTTAGGGGATAATTTGTTTTGGC
TCAGTTGTTCCCTGCTTCTTTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCGCTCTGTTGCCAGGCTG
GAGTGCAGTGGTGCATCTCAGCTCACTGCATCCTCTGCCTCCCGGGTCAAGCAATTCTCTGCCTCAG
CCTCCCAAGTAGTTGGGATTACAGGCACCTGCCACCATGCCTGGCTAATTTTTTGTATTTTATAGTAGAG
ACGGGGGTTTCACTATGTTGGCTAGGCTGGTCTTGAACCTCTGACCTCGTGATCCACCCGCTTGGCCT
CCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCTTCCCTGCTTCTCTAGAATCCAA
TTAGGGATGTTTGTACTACTCATATTGATTAACACAGTTAACAACTTTTTTCTTTTTAAATGTGAG
ATCAGTGAACCTGGTTTTAAGATAATCTGAAACAAGGTCCTTGGGAGTAATAAAATTTGGTACATTCT
GTAAAGCACATTCTGTTTAGGAATCAACTTATCTCAAATGTAACCTCGGGCCTAACTATATGAGATGG
CTGAAAAAATACCACATCGTCTGTTTTCACTAGGTGATGCCAAAATTTTTGCTTTATGTATATTACAG
TTCTTTTTAAACACTGGAAGACTCATGTTAACTCTAATTGTGAAGGCAGAATCTCTGCTAATTTTTTC
AGATTAATTTCTTTTAAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

**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\\_000786.4](#)

**Summary:**

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum protein participates in the synthesis of cholesterol by catalyzing the removal of the 14alpha-methyl group from lanosterol. Homologous genes are found in all three eukaryotic phyla, fungi, plants, and animals, suggesting that this is one of the oldest cytochrome P450 genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

**Locus ID:**

1595

**MW:**

59.9