

## Product datasheet for SC210195

### CYP27B1 (NM\_000785) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** CYP27B1 (NM\_000785) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** CYP27B1  
**Synonyms:** CP2B; CYP1; CYP1alpha; CYP27B; P450c1; PDDR; VDD1; VDDR; VDDRI; VDR  
**ACCN:** NM\_000785  
**Insert Size:** 838 bp  
**Insert Sequence:** >SC210195 3'UTR clone of NM\_000785  
 The sequence shown below is from the reference sequence of NM\_000785. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AGCATCAACCTACAGTTTTTTGGACAGATAGTCCCATGGAAAGAGACTGTCATCATCACCCCTTTCATTCA
TCATAGGGATAAGATTTTTGTAGGCACAAGACCAAGGTATACATCTTCCCCTAATGCCTATCTGACCA
AACTGGATAGAACCACCATAGTGAAGTGTGAGGCGGCCCTGACCAATGTGTGAAGTATGCACTTGGCCT
GACTCAGGAAGCCAGGTGAGAAAACCATGGTCTCTCTGCTTGGCCCTTCTGATCATGTATGCATC
CCCCAAGGATGAAATCAGATTTTAACTAATAATGCTGGATGGCCTGAGGAAAGATTCAACTGCCTCTCT
TTTTGGGCTTTCATAGTGTTCATTGATGCTGCTGGCTAAGCATTATCAAAGCATAAGCTCAGTAACTG
TGCATCTGGTCTGTACCTGGTGGTCTTCGTCTTTCATGTAAGCTCTTGGAGGAAGGGTGAAGCC
TTATTTGTTTTTATGTCCCTGCCAGGGCCTGTCTCTGACTAGGTGTCACCATAACATTCTTAGATT
GAATCTGAACCATGTGGCAGAAGGGATAAGCAGCTTACTTAGTAGGCTCTGTCTACCCCTTCTCTCTT
TGTCTTGGCCCTAGGAAGGTGAATCTGCCCTAGCCTGGTTTACGGTTTCTATAACTCTCCTTTGCTCT
CTGGCCACTATTAAGTGGGTTTGGCCCATCACTTAGTTCTCAGGCAGAGACATCTTTGGGCTGTCCCT
GCCCAGGCTCTGGCTTTTTATATTGAAAATTTTAAATATTCACAAATTTTAGAATAAATCAAATATT
CCATTCTTGA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
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).



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<b>Components:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_000785.4</a>
<b>Summary:</b>	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. The protein encoded by this gene localizes to the inner mitochondrial membrane where it hydroxylates 25-hydroxyvitamin D3 at the 1alpha position. This reaction synthesizes 1alpha,25-dihydroxyvitamin D3, the active form of vitamin D3, which binds to the vitamin D receptor and regulates calcium metabolism. Thus this enzyme regulates the level of biologically active vitamin D and plays an important role in calcium homeostasis. Mutations in this gene can result in vitamin D-dependent rickets type I. [provided by RefSeq, Jul 2008]
<b>Locus ID:</b>	1594
<b>MW:</b>	31.4