

## Product datasheet for **SC102224**

### Cytochrome P450 17A1 (CYP17A1) (NM\_000102) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 17A1 (CYP17A1) (NM_000102) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome P450 17A1
Synonyms:	CPT7; CYP17; P450C17; S17AH
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_000102 edited  
 ATAGGGCGGCCGGAATTCGGCACGAGACTGCTGTCTATCTTGCCTGCCGGCACCCAGCC  
 ACCATGTGGGAGCTCGTGGCTCTCTTGCTGCTTACCCTAGCTTATTTGTTTTGGCCCAAG  
 AGAAGGTGCCCTGGTGCCAAGTACCCCAAGAGCCTCCTGTCCCTGCCCTGGTGGGCAGC  
 CTGCCATTCTCCCAGACACGGCCATATGCATAACAACCTCTTCAAGCTGCAGAAAAAA  
 TATGGCCCCATCTATTCGGTTCGTATGGCACCAGACTACAGTGATTGTCGGCCACCAC  
 CAGCTGGCCAAGGAGGTGCTTATTAAGAAGGGCAAGGACTTCTCTGGGCGGCCTCAAATG  
 GCAACTCTAGACATCGCGTCCAACAACCGTAAGGGTATCGCCTTGCCTGACTCTGGCGCA  
 CACTGGCAGCTGCATCGAAGGCTGGCGATGGCCACCTTTGCCCTGTTCAAGGATGGCGAT  
 CAGAAGCTGGAGAAGATCATTTGTGAGGAAATCAGTACATTGTGTGATATGCTGGCCACC  
 CACAACGGACAGTCCATAGACATCTCCTTTCTGTCTTGTGGCGGTAACCAATGTCATC  
 TCCTTGATCTGCTTCAATACCTCTACAAGAATGGGGACCCTGAGTTGAATGTCATACAG  
 AATTACAATGAAGGCATCATAGACAACCTGAGCAAAGACAGCCTGGTGGACCTAGTCCCC  
 TGGTTGAAGATTTTCCCAACAAAACCTGGAAAAATTAAGAGCCATGTTAAAAACGA  
 AATGATCTGCTGAATAAAATACTTGAAAATTACAAGGAGAAATCCGGAGTGACTCTATC  
 ACCAACATGCTGGACACACTGATGCAAGCCAAGATGAACTCAGATAATGGCAATGCTGGC  
 CCAGATCAAGACTCAGAGCTGCTTTCAGATAACCACATTTCTACCACCATAGGGGACATC  
 TTTGGGCTGGCGTGGAGACCACCCTCTGTGGTTAAATGGACCCTGGCCTTCTGCTG  
 CACAATCTCAGGTGAAGAAGAAGCTCTACGAGGAGATTGACCAGAAATGTGGTTTCAGC  
 CGCACACCAACTATCAGTGACCGTAACCGTCTCCTCCTGCTGGAGGCCACCATCCGAGAG  
 GTGCTTCGCCTCAGGCCCGTGGCCCTATGCTCATCCCCACAAGGCCAACGTTGACTCC  
 AGCATCGGTGAGTTTGTGTGGACAAGGGCACAGAAGTTATCATCAATCTGTGGGCGCTG  
 CATCACAATGAGAAGGAGTGGCACCAGCCGGATCAGTTCATGCCTGAGCGTTTCTTGAAT  
 CCAGCGGGACCCAGCTCATCTCACCGTACGTAAGCTATTTGCCCTTCGGAGCAGGACCT  
 CGCTCCTGTATAGGTGAGATCCTGGCCCGCCAGGAGCTTTCCTCATCATGGCCTGGCTG  
 CTGCAGAGGTTGACCTGGAGGTGCCAGATGATGGGCAGCTGCCCTCCCTGGAAGGCATC  
 CCCAAGGTGGTCTTTCTGATCGACTCTTCAAAGTGAAGATCAAGGTGCGCCAGGCTGG  
 AGGGAAGCCAGGCTGAGGGTAGCACCTAAAGGCTGTAACCTCACAGCCCCTGTCCACCCT  
 ATGTGGCCCCACAACACAGATTTAGAGATAACAACCCCCACCCTTCTCCGCCATTCTTCC  
 TACTCCCAACCCACTCTGCCTTCTTTTTAGCTTGTGGCAATGCCAGTATGTGCATAA  
 ACAGTTTTTTTTTTTCCAAAAAAAGTGAAGGCAGCCTGGGAATGAACATTGTTAGTTC  
 TATCTTGGCCTTATTGGAGTGATCTGCTGCTGGTGGATATGTGCATCAATGGGGTAGC  
 TG

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_000102 unedited  
 ATTATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGACTGCTGTCT  
 ATCTTGCCTGCCGGCACCCAGCCACCATGTGGGAGCTCGTGGCTCTCTTGCTGCTTACCC  
 TAGCTTATTTGTTTTGGCCCAAGAGAAGGTGCCCTGGTGCCAAGTACCCCAAGAGCCTCC  
 TGTCCTGCCCTGGTGGGCAGCCTGCCATTCTCCCCAGACACGGCCATATGCATAACA  
 ACTTCTTCAAGCTGCAGAAAAAATATGGCCCATCTATTCGGTTCGTATGGGCACCAAGA  
 CTACAGTGATTGTGCGCCACCACCAGCTGGCCAAGGAGGTGCTTATTAAGAAGGGCAAGG  
 ACTTCTCTGGGCGGCCTCAAATGGCAACTCTAGACATCGCGTCCAACAACCGTAAGGGTA  
 TCGCCTTCGCTGACTCTGGCGCACACTGGCAGCTGCATCGAAGGCTGGCGATGGCCACCT  
 TTGCCCTGTTCAAGGATGGCGATCAGAAGCTGGAGAAGATCATTTGTGAGGAAATCAGTA  
 CATTGTGTGATATGCTGGCCACCACAACGGACAGTCCATAGACATCTCCTTTCCTGTCT  
 TCGTGGCGGTAACCAATGTCATCTCCTTGATCTGCTTCAATACCTCTACAAGAATGGGG  
 ACCCTGAGTTGAATGTCATACAGAATTACAATGAAGGCATCATAGACAACCTGAGCAAAG  
 ACAGCCTGGTGGACCTAGTCCNCTGTTGAAAGATTTCCCACAAAACCTGNAAAAATA  
 AAGAGCCATGTAATAACGAATGATCTGCTGAATAAAATACTGANAATACAGGAGAAANT  
 NCCGATGACTCTTACCACATGCTGGAACACTGATGCAGCCCAAGATGACTCANATATGG  
 CATGCTGGCCAGATCAGATCAAACCTGTTTCGATACCACATCTACACATAGGGACTT



**Protein Families:** Druggable Genome, P450

**Protein Pathways:** C21-Steroid hormone metabolism, Metabolic pathways

**Gene 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 protein localizes to the endoplasmic reticulum. It has both 17alpha-hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17 alpha-hydroxylase deficiency, 17-alpha-hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia. [provided by RefSeq, Jul 2008]