

Product datasheet for **SC322571**

CYP51A1 (NM_000786) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP51A1 (NM_000786) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP51A1
Synonyms:	CP51; CYP51; CYPL1; LDM; P450-14DM; P450L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for SC322571
 GCTGGGTTTAGTAGGAGACCTGGGGCAAGGCCCCCTGTGGACGACCATCTGCCAGCTTCT
 CTCGTTCCGTCGATTGGGAGGAGCGGTGGCGACCTCGGCCTTCAGTGTTCGACGGAGT
 GAATGGCGGGCGGGCTGGGATGCTGCTGCTGGCTTGTGCAGGCGGGTGGTCCGGTGC
 TGGGCCAGGCGATGGAGAAGGTGACAGGCGGCAACCTCTGTCCATGCTGCTGATCGCCT
 GCGCCTTACCCTCAGCTGGTCTACCTGATCCGTCTGGCCGCGGCCACCTGGTCCAGC
 TGCCCGCAGGGGTGAAAAGTCCATACATTTTCTCCCAATTCATTCTGGGCATG
 CCATAGCATTGGGAAAAGTCCAATTGAATTTCTAGAAAATGCATATGAGAAGTATGGAC
 CTGTATTTAGTTTTACCATGGTAGGCAAGACATTTACTTACCTTCTGGGAGTGATGCTG
 CTGCACTGCTTTTTAATAGTAAAAATGAAGACCTGAATGCAGAAGATGTCTACAGTCGCC
 TGACAACACCTGTGTTTGGGAAGGGAGTTGCATACGATGTGCCTAATCCAGTTTTCTTG
 AGCAGAAGAAAATGTTAAAAAGTGGCCTTAACATAGCCCACTTTAAACAGCATGTTTCTA
 TAATTGAAAAAGAAACAAAGGAATACTTTGAGAGTTGGGAGAAAAGTGGAGAAAAAATG
 TGTTTGAAGCTCTTTCTGAGCTCATAATTTAACAGCTAGCCATTGTTTGCATGGAAAGG
 AAATCAGAAGTCAACTCAATGAAAAGGTAGCACAGCTGTATGCAGATTTGGATGGAGGTT
 TCAGCCATGCAGCTGGCTCTTACCAGGTTGGCTGCCTTTGCCTAGTTTCAGACGCAGGG
 ACAGAGCTCATCGGAAAATCAAGGATATTTTCTATAAGGCAATCCAGAAAACGCAGACAGT
 CTCAAGAAAAAATTGATGACATTCTCAAACCTTACTAGATGCTACATACAAGGATGGGC
 GTCCTTTGACTGATGATGAAGTAGCAGGGATGCTTATTGGATTACTCTTGGCAGGGCAGC
 ATACATCTCAACTACTAGTCTGGATGGGCTCTTTTTGGCCAGAGACAAAACACTTC
 AAAAAAATGTTATTTAGAACAGAAAACAGTCTGTGGAGAGAATCGCCTCCTTTAACTT
 ATGACCAGCTCAAGGATCTAAATTTACTTGATCGCTGTATAAAAGAAACATTAAGACTTA
 GACCTCTGTAATGATCATGATGAGAATGGCCAGAACTCCTCAGACTGTGGCAGGGTATA
 CCATTCTCCAGGACATCAGGTGTGTTTCTCCCACTGTCAATCAAAGACTTAAAGACT
 CATGGGTAGAACGCCTGGACTTTAATCCTGATCGCTACTTACAGGATAAACCAGCATCAG
 GGGAAAAGTTGCCTATGTGCCATTTGGAGCTGGGCGTCATCGTTGTATTGGGAAAAATT
 TTGCCTATGTTCAAATTAAGACAATTTGGTCCACTATGCTTCGTTTATATGAATTTGATC
 TCATTGATGGATACTTTCCCACTGTGAATTATACAATATGATTCACACCCCTGAAAACC
 CAGTTATCCGTTACAACGAAGATCAAAATGAAAAAGGTTGCAAGGAACGAATATATGTG
 ATTATCACTGTAAGCCACAAAGGCATTGAAGAGAATGAAGTGTACAAAACAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_000786

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	NM_000786.2 , NP_000777.1
RefSeq Size:	3381 bp
RefSeq ORF:	1530 bp
Locus ID:	1595
UniProt ID:	Q16850
Cytogenetics:	7q21.2
Domains:	p450
Protein Families:	Druggable Genome, P450, Transmembrane
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>