

## Product datasheet for SC305741

### CYP26A1 (NM\_057157) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CYP26A1 (NM_057157) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP26A1
Synonyms:	CP26; CYP26; P450RAI; P450RAI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305741 representing NM_057157. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
 ATGAAGCGCAGGAAATACGGCTTCATCTACAAGACGCATCTGTTCCGGCGGCCACCGTACGGGTGATG  
 GGCGCGGACAATGTGCGGCGCATCTTGCTCGGAGAGCACCGGCTGGTGTCGGTCCACTGGCCAGCGTCG  
 GTGCGCACCAATTCTGGGATCTGGCTGCCTCTTAACCTGCACGACTCCTCGCACAAAGCAGCGCAAGAAG  
 GTGATTATGCGGGCCTTCAGCCGCGAGGCACTCGAATGCTACGTGCCGGTGATCACCGAGGAAGTGGGC  
 AGCAGCCTGGAGCAGTGGCTGAGCTGCGGCGAGCGCGGCTCCTGGTCTACCCGAGGTGAAGCGCCTC  
 ATGTTCCGAATCGCCATGCGCATCCTACTGGGCTGCGAACCCAACTGGCGGGCGACGGGGACTCCGAG  
 CAGCAGCTTGTGAGGCCCTTCGAGGAAATGACCCGCAATCTCTTCTCGCTGCCCATCGACGTGCCCTTC  
 AGCGGGCTGTACCGGGCATGAAGGCGCGGAACCTCATTACGCGCGCATCGAGCAGAACATTCGCGCC  
 AAGATCTGCGGGCTGCGGGCATCCGAGGCGGGCCAGGGCTGCAAAGACGCGCTGCAGCTGTTGATCGAG  
 CACTCGTGGGAGAGGGGAGAGCGGCTGGACATGCAGGCACTAAAGCAATCTTCAACCGAACTCCTCTTT  
 GGAGGACACGAAACACGGCCAGTGCAGCCACATCTCTGATCACTTACCTGGGGCTTACCCACATGTT  
 CTCCAGAAAGTGCAGAAGAGCTGAAGAGTAAGGGTTTACTTTGCAAGAGCAATCAAGACAACAAGTTG  
 GACATGGAAATTTTGAACAACCTAAATACATCGGGTGTGTTATTAAGGAGACCTTCGACTGAATCCC  
 CCAGTTCCAGGAGGGTTTCGGGTTGCTCTGAAGACTTTTGAATTAATGGATACAGATTCCCAAGGGC  
 TGGAAATGTATCTACAGTATCTGTGATACTCATGATGTGGCAGAGATCTTACCAACAAGGAAGAAATT  
 AATCCTGACCGATTATGCTGCCTCACCCAGAGGATGCATCCAGGTTAGCTTCATTCCATTTGGAGGA  
 GGCTTAGGAGCTGTGTAGGCAAAGAAATTTGAAAAATCTTCTCAAAATATTTACAGTGGAGCTGGCC  
 AGGCATTGTGACTGGCAGCTTCTAAATGGACCTCCTACAATGAAAACAGTCCCACCGTGTATCTGTG  
 GACAATCTCCCTGCAAGATTACCCATTTCCATGGGAAATCTGA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC


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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_057157
<b>Insert Size:</b>	1287 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_057157.2</a></u>
<b>RefSeq Size:</b>	2245 bp
<b>RefSeq ORF:</b>	1287 bp
<b>Locus ID:</b>	1592
<b>UniProt ID:</b>	<u><a href="#">O43174</a></u>
<b>Cytogenetics:</b>	10q23.33
<b>Protein Families:</b>	Druggable Genome, P450, Transmembrane
<b>Protein Pathways:</b>	Retinol metabolism
<b>MW:</b>	48.6 kDa

**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 endoplasmic reticulum protein acts on retinoids, including all-trans-retinoic acid (RA), with both 4-hydroxylation and 18-hydroxylation activities. This enzyme regulates the cellular level of retinoic acid which is involved in regulation of gene expression in both embryonic and adult tissues. Two alternatively spliced transcript variants of this gene, which encode the distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) contains an alternate 5' end region, which doesn't contain an in-frame translation start codon, when compared to variant 1. Translation thus begins at a downstream start codon, and results in a N-terminal truncated protein, as compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.