

Product datasheet for **SC300131**

CYP24A1 (NM_000782) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | CYP24A1 (NM_000782) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CYP24A1 |
| Synonyms: | CP24; CYP24; HCAI; HCINF1; P450-CC24 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_000782 edited
 GCCCTTAAGCCCCGACTCCCCTAGCACCTCGTACCAACCTCGCCCCACCCCATCTCTCT
 GCCTTCCC CGCTCCGGTGTCCCCCGCTGCCATGAGCTCCCCATCAGCAAGAGCCGCTC
 GCTTGCCGCTTCTCTGCAGCAGCTGCGCAGTCCGAGGCAGCCCCGAGACTGGTGACATC
 TACGGCGTACACGTCCCCTCAGCCGCGAGAGGTGCCAGTCTGCCCGCTGACAGCTGGTGG
 CGAGACTCAGAACCGGGCCGCTGCCGGGCCACCAGCTGGCCACTGCTGGGCAGCCT
 GCTGCAGATTCTCTGAAAGGGGTCTCAAGAAACAGCACGACACCCTGGTGGAGTACCA
 CAAGAAGTATGGCAAGATTTCCGCATGAAGTTGGTTCCTTTGAGTCGGTGCACCTGGG
 CTCGCCATGCCTGCTGGAAGCGCTGTACCGCACCGAGAGCGCGTACCCGAGCGGCTGGA
 GATCAAACCGTGAAGGCCTATCGCGACTACCGCAAAGAAGGCTACGGGCTGCTGATCCT
 GGAAGGGGAAGACTGGCAGCGGGTCCGGAGTGCCTTTCAAAGAACTAATGAAACCAGG
 GGAAGTGTGAAGCTGGACAACAAAATCAATGAGGTCTTGGCCGATTTTATGGGCAGAA
 TAGATGAGCTCTGTGATGAAAGAGGCCACGTGGAAGACTGTACAGCGAACTGAACAAAT
 GGTTCGTTTGAAGTATCTGCCTCGTGTGTATGAGAAGAGATTTGGGCTTCTCCAGAAGA
 ATGCAGGGGATGAAGCTGTGAACCTTCATCATGGCCATCAAACAATGATGAGCACGTTTG
 GGAGGATGATGGTCACTCCAGTCGAGCTGCACAAGAGCCTCAACACCAAGGTCTGGCAGG
 ACCACACTCTGGCCTGGGACACCATTTTCAAATCAGTCAAAGCTTGTATCGACAACCGGT
 TAGAGAAGTATTCTCAGCAGCCTAGTGCAGATTTCTTTGTGACATTTATCACCAGAATC
 GGCTTTCAAAGAAAGAATTGTATGCTGTGTCACAGAGCTCCAGCTGGCTGCGGTGGAAA
 CGACAGCAAACAGTCTAATGTGGATTCTCTACAATTTATCCCGTAATCCCCAAGTGAAC
 AAAAGCTTCTTAAGGAAATCAAAGTGTATTACCTGAGAATCAGGTGCCACGGGCAGAAG
 ATTTGAGGAATATGCCGATTTAAAAGCCTGTCTGAAAGAATCTATGAGGCTTACGCCGA
 GTGTACCATTTACAACCTGGACTCTTGACAAGGCAACAGTCTGGGTGAATATGCTTTAC
 CCAAAGGAACAGTGTCTATGCTAAATACCCAGGTGTTGGGATCCAGTGAAGACAATTTTG
 AAGATTCAAGTCAGTTTACACCTGAACGTTGGCTTCAGGAGAAGGAAAAAATTAATCCTT
 TTGCGCATCTTCCATTTGGCGTTGAAAAAGAATGTGCATTGGTCCCGATTAGCAGAGC
 TTCAACTGCATTTGGCTCTTTGTTGGATTGTCCGCAAATACGACATCCAGGCCACAGACA
 ATGAGCCTGTTGAGATGCTACACTCAGGCACCCTGGTCCCAGCCGGGAACCTCCCATCG
 CGTTTTGCCAGCGATAATACGCCTCAGATGGTGGTATTTGCTAACATCATATCCAACCTCA
 GGAAGCGGACTGAGTGTGGGATCCAAGGCATTCT

Restriction Sites: Please inquire

ACCN: NM_000782

Insert Size: 1700 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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| OTI Annotation: | The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference. |
| 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: | <u>NM_000782.3</u> , <u>NP_000773.2</u> |
| RefSeq Size: | 3295 bp |
| RefSeq ORF: | 1545 bp |
| Locus ID: | 1591 |
| UniProt ID: | <u>Q07973</u> |
| Cytogenetics: | 20q13.2 |
| Protein Families: | Druggable Genome |
| 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 mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D3, the physiologically active form of vitamin D3, by hydroxylation of the side chain. In regulating the level of vitamin D3, this enzyme plays a role in calcium homeostasis and the vitamin D endocrine system. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p> |