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Product datasheet for SC123897

CYP26A1 (NM_000783) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP26A1 (NM_000783) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP26A1
Synonyms:	CP26; CYP26; P450RAI; P450RAI1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF sequence for NM_000783 edited
GTCGCGGCGCGCCATGGGGCTCCCGGCGCTGCTGGCCAGTGCGCTCTGCACCTTCGTGCT
GCCGCTGCTGCTCTTCCTGGCTGCGATCAAGCTCTGGGACCTGTACTGCGTGAGCGGCCG
CGACCGCAGTTGTGCCCTCCCATTGCCCCCCGGGACTATGGGCTTCCCCTTCTTTGGGGA
AACCTTGCAGATGGTACTGCAGCGGAGGAAGTTCCTGCAGATGAAGCGCAGGAAATACGG
CTTCATCTACAAGACGCATCTGTTCGGGCGGCCCACCGTACGGGTGATGGGCGCGGACAA
TGTGCGGCGCATCTTGCTCGGAGAGCACCGGCTGGTGTCGGTCCACTGGCCAGCGTCGGT
GCGCACCATTCTGGGATCTGGCTGCCTCTCTAACCTGCACGACTCCTCGCACAAGCAGCG
CAAGAAGGTGATTATGCGGGCCTTCAGCCGCGAGGCACTCGAATGCTACGTGCCGGTGAT
CACCGAGGAAGTGGGCAGCAGCCTGGAGCAGTGGCTGAGCTGCGGCGAGCGCGGCCTCCT
GGTCTACCCCGAGGTGAAGCGCCTCATGTTCCGAATCGCCATGCGCATCCTACTGGGCTG
CGAACCCCAACTGGCGGGCGACGGGGACTCCGAGCAGCAGCTTGTGGAGGCCTTCGAGGA
AATGACCCGCAATCTCTTCTCGCTGCCCATCGACGTGCCCTTCAGCGGGCTGTACCGGGG
CATGAAGGCGCGGAACCTCATTCACGCGCGCATCGAGCAGAACATTCGCGCCAAGATCTG
CGGGCTGCGGGCATCCGAGGCGGGCCAGGGCTGCAAAGACGCGCTGCAGCTGTTGATCGA
GCACTCGTGGGAGAGGGGAGAGCGGCTGGACATGCAGGCACTAAAGCAATCTTCAACCGA
ACTCCTCTTTGGAGGACACGAAACCACGGCCAGTGCAGCCACATCTCTGATCACTTACCT
GGGGCTCTACCCACATGTTCTCCAGAAAGTGCGAGAAGAGCTGAAGAGTAAGGGTTTACT
TTGCAAGAGCAATCAAGACAACAAGTTGGACATGGAAATTTTGGAACAACTTAAATACAT
CGGGTGTGTTATTAAGGAGACCCTTCGACTGAATCCCCCAGTTCCAGGAGGGTTTCGGGT
TGCTCTGAAGACTTTTGAATTAAATGGATACCAGATTCCCAAGGGCTGGAATGTTATCTA
CAGTATCTGTGATACTCATGATGTGGCAGAGATCTTCACCAACAAGGAAGAATTTAATCC
TGACCGATTCATGCTGCCTCACCCAGAGGATGCATCCAGGTTCAGCTTCATTCCATTTGG
AGGAGGCCTTAGGAGCTGTGTAGGCAAAGAATTTGCAAAAATTCTTCTCAAAATATTTAC
AGTGGAGCTGGCCAGGCATTGTGACTGGCAGCTTCTAAATGGACCTCCTACAATGAAAAC
CAGTCCCACCGTGTATCCTGTGGACAATCTCCCTGCAAGATTCACCCATTTCCATGGGGA
AATCTGATGAGCTTGAATGTTCAAACCTGAGACTTATTGGAAGTGTACATATGAGTTTTT
AAGGAGTGTTGTGTTGACTTTATATTTAATTTCTAAATGTATATTATAATATTTATGTGT
TTTGACTATACTACCACAATCTTTAAATATTAAAATAATGAATTTGTATCATTTCCAAAT
AAAGTAAAATTTGAAGGTAAAAAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCG
CGGTCATAGCTGTTTCCTGAACAGATCCCG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000783 unedited
AGTCGGAATTTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGGGCAGGTG
GCGCGGGAGGTCGCGGCGCGCCATGGGGCTCCCGGCGCTGCTGGCCAGTGCGCTCTGCAC
CTTCGTGCTGCCGCTGCTGCTCTTCCTGGCTGCGATCAAGCTCTGGGACCTGTACTGCGT
GAGCGGCCGCGACCGCAGTTGTGCCCTCCCATTGCCCCCCGGGACTATGGGCTTCCCCTT
CTTTGGGGAAACCTTGCAGATGGTACTGCAGCGGAGGAAGTTCCTGCAGATGAAGCGCAG
GAAATACGGCTTCATCTACAAGACGCATCTGTTCGGGCGGCCCACCGTACGGGTGATGGG
CGCGGACAATGTGCGGCGCATCTTGCTCGGAGAGCACCGGCTGGTGTCGGTCCACTGGCC
AGCGTCGGTGCGCACCATTCTGGGATCTGGCTGCCTCTCTAACCTGCACGACTCCTCGCA
CAAGCAGCGCAAGAAGGTGATTATGCGGGCCTTCAGCCGCGAGGCACTCGAATGCTACGT
GCCGGTGATCACCGAGGAAGTGGGCAGCAGCCTGGAGCAGTGGCTGAGCTGCGGCGAGCG
CGGCCTCCTGGTCTACCCCGAGGTGAAGCGCCTCATGTTCCGAATCGCCATGCGCATCCT
ACTGGGCTGCGAACCCCAACTGGCGGGCGACGGGGACTCCGAGCAGCAGCTTGTGGAGGC
CTTCGAGGAATGACCCGCAATCTCTTCTCGCTGCCCATCGACGTGCCCTTCANCGGGCTG
TACCGGGGCATGAAAGCGCGGAACCTCATTCACGCGCGCATCGAGCAGAACATCCCGCCC
AGATCTGCGGGCTGCGGGCATCCGAGGCGGGCCAGGGCTGCAAAAACCCGCTGCAGCTGT
TGATCAACCACTCCTGGGAGAGGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000783 unedited
AGGGGNNAGGNNNNTNNNNATTGTCTTGCCTGTTTGTGCGAGGAGTCGTGCAGGTTAGAG
AGGCAGCCAGATCCCAGAATGGTGCGCACCGACGCTGGCCAGTGGACCGACACCAGCCGG
TGCTCTCCGAGCAAGATGCGCCGCACATTGTCCGCGCCCATCACCCGTACGGTGGGCCGC
CCGAACAGATGCGTCTTGTAGATGAAGCCGTATTTCCTGCGCTTCATCTGCAGGAACTTC
CTCCGCTGCAGTACCATCTGCAAGGTTTCCCCAAAGAAGGGGAAGCCCATAGTCCCGGGG
GGCAATGGGAGGGCACAACTGCGGTCGCGGCCGCTCACGCAGTACAGGTCCCAGAGCTTG
ATCGCAGCCAGGAAGAGCAGCAGCGGCAGCACGAAGGTGCAGAGCGCACTGGCCAGCAGC
GCCGGGAGCCCCATGGCGCGCCGCGACCTCCCGCGCCACCTGCCCCCTCGTGCCGAATTC
GCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGAGCTCTGC
TTATATAGACCTCCCACCGTACACGCCTACCGCCCATTTGCGTCAACGGGGCGGNGTTAT
TACGACATTTTGGAAAGTCCCGTTGATTTTGGTGCCAAAACAAACTCCCATTGACGTCAA
TGGNGTGGAGACTTGNAAATCCCCGTGAGTCANACCGCTATCCACGCCCATTGGTGTACT
GCCAAAACCGCATCACCATGGTAATAGCGATGACTAATACGTAGATGTACTGCCAAGTAG
GAAAGTCCCGTAGGGTCAN

Restriction Sites: NotI-NotI

ACCN: NM_000783

Insert Size: 4000 bp

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).

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:
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_000783.2, NP_000774.2

RefSeq Size: 2099 bp

RefSeq ORF: 1494 bp

Locus ID: 1592

UniProt ID: O43174

Cytogenetics: 10q23.33

Domains: p450

Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Retinol metabolism

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 (1) encodes the longer protein (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.