

Product datasheet for **SC309050**

CYP2A13 (NM_000766) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CYP2A13 (NM_000766) Human Untagged Clone
Tag: Tag Free
Symbol: CYP2A13
Synonyms: CPAD; CYP2A; CYP11A13
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000766 edited
 ATGCTGGCCTCAGGGCTGCTTCTGGTGACCTTGCTGGCCTGCCTGACTGTGATGGTCTTG
 ATGTCAGTCTGGCGGCAGAGGAAGAGCAGGGGAAGCTGCCTCCGGGACCCACCCATTG
 CCTTCATTGGAAACTACCTGCAGCTGAACACAGAGCAGATGTACAACCTCCCTCATGAAG
 ATCAGTGAGCGCTATGGCCCTGTGTTCAACATTCACTTGGGGCCCCGGCGGGTCTGGTG
 CTGTGCGGACATGATGCCGTCAAGGAGGCTCTGGTGGACCAGGCTGAGGAGTTCAGCGGG
 CGAGGCGAGCAGGCCACCTTCGACTGGCTCTTCAAAGGCTATGGCGTGCGTTCAGCAAC
 GGGGAGCGCGCAAGCAGCTCCGGCGCTTCTCCATCGCCACCCTAAGGGGTTTTGGCGTG
 GGCAAGCGCGGCATCGAGGAACGCATCCAGGAGGAGCGGGCTTCTCATCGACGCCCTC
 CGGGGCACGCACGGCGCAATATCGATCCACCTTCTTCTGAGCCGCACAGTCTCCAAT
 GTCATCAGCTCCATTGTCTTTGGGGACCGCTTTGACTATGAGGACAAAGAGTTCCTGTCA
 CTGTTGCGCATGATGCTGGGAAGCTTCCAGTTCACGGCAACCTCCACGGGCGAGCTCAT
 GAGATGTTCTCTTCGGTGATGAAACACCTGCCAGGACCACAGCAACAGGCCTTTAAGGAG
 CTGCAAGGGCTGGAGGACTTCATCGCCAAGAAGGTGGAGCACAACCAGCGCACGCTGGAT
 CCCAATCCCCACGGGACTTCATCGACTCCTTTCTCATCCGCATGCGAGGAGGAGGAGAAG
 AACCCCAACACAGAGTTCTACTTGAAGAACCTGGTGATGACCACCCTGAACCTCTCTTT
 GCGGGCACTGAGACCGTGAGCACCACCCTGCGCTACGGTTTCTGCTGCTCATGAAGCAC
 CCAGAGGTGGAGGCCAAGTCCATGAGGAGATTGACAGAGTATCGGCAAGAACCAGGAG
 CCCAAGTTTGAGGACCGGGCCAAGATGCCCTACACAGAGGAGTATCCAGGATCCAA
 AGATTTGAGAGACATGCTCCCATGGGTTTGGCCACAGGGTCAACAAGGACACCAAGTTT
 CGGGATTTCTTCCCTAAGGGCACTGAAGTGTTCCTATGCTGGGCTCCGTGCTGAGA
 GACCCAGGTTCTTCTCAACCCCGGGACTTCAATCCCCAGCACTTCTGGATAAGAAG
 GGGCAGTTTAAGAAGAGTGATGCTTTTGTGCCCTTTCCATCGGAAAGCGGTAAGTTT
 GGAGAAGGCTGGCCAGAATGGAGCTTTTCTTCTTCCACCACCATCATGCAGAACTTT
 CGCTTCAAGTCCCCTCAGTCGCCTAAGGATATCGACGTGTCCCCAAACAGTGGGCTTT
 GCCACGATCCCACGAAACTACACCATGAGCTTCTGCCCGCTGA



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Restriction Sites:	Please inquire
ACCN:	NM_000766
Insert Size:	1500 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).
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:	NM_000766.3 , NP_000757.2
RefSeq Size:	1747 bp
RefSeq ORF:	1485 bp
Locus ID:	1553
UniProt ID:	Q16696
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Caffeine metabolism, Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Metabolic 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 protein localizes to the endoplasmic reticulum. Although its endogenous substrate has not been determined, it is known to metabolize 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, a major nitrosamine specific to tobacco. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008]