

Product datasheet for **SC126922**

CYP2A7 (NM_000764) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP2A7 (NM_000764) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP2A7
Synonyms:	CPA7; CPAD; CYP2A; CYP11A7; P450-IIA4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_000764, the custom clone sequence may differ by one or more nucleotides

```
GGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACT
CACTATAGGGCGGCCGCAATTCGGCACCAGGCTGGCCTCAGGGATGCTTCTGGTGGCCTTGCTGGTCTG
CCTGACTGTGATGGTCTTGATGTCTGTTTGGCAGCAGAGGAAGCAAGGGGAAGCTGCCTCCGGGACCC
ACCCCATTTGCCCTTCATTGGAACTACCTGCAGCTGAACACAGAGCAGATGTACAACCTCCCTCATGAAGA
TCAGTGAGCGCTATGGCCCCGTGTTACCACTTCACTTGGGGCCCCGGCGGGTCTGGTGTGTGTGGACA
TGATGCCGTGAGGGAGGCTCTGGTGGACCAGGCTGAGGAGTTCAGCGGGCGAGGGCAGCAAGCCACCTTC
GACTGGGTCTTCAAAGGCTATGGCGTGGTATTAGCAACGGGGAGCGCGCCAAGCAGCTCCGGCGCTTCT
CCATCGCCACCCTGCGGGACTTCGGGGTGGCAAGCGAGGCATCGAGGAGCGCATCCAGGAGGAGGGCGG
CTTCTCATCGACGCCCTCCGGGCACTGGCGGCCAATATCGATCCCACCTTCTTCTGAGCCGCACA
GTCTCAAATGTCATCAGCTCCATTGTCTTTGGGACCGCTTTGACTATAAGGACAAAGAGTTCCTGTAC
TGTTGCGCATGATGCTAGGAATCTTCCAGTTCAGTCAACCTCCACGGGGCAGCTCTATGAGATGTTCTC
TTCCGGTGTGAAACACCTGCCAGGACCACAGCAACAGGCCTTTCAGTTGCTGCAAGGGCTGGAGGACTTC
ATAGCCAAGAAGGTGGAGCACAACCAGCGCACGCTGGATCCCAATTTCCCACGGGACTTCATTGACTCCT
TTCTCATCCGCATGCAGGAGGAGGAGAAGAACCCCAACACGGAGTTTACTTGAAAACTGGTGTGAC
CACGTTGAACCTTTCATTGGGGCACCAGACCGTCCAGCACCACCTGCGCTATGGCTTCTTGTGCTC
ATGAAGCACCCAGAGGTGGAGGCCAAGTCCATGAGGAGATTGACAGAGTGATCGGCAAGAACCAGCAGC
CCAAGTTTGAGGACCGGGCAAGATGCCCTACATGGAGGCAGTGATCCACGAGATCCAAAGATTTGGAGA
CGTATCCCATGAGTTTGGCCCGCAGAGTCAAAAAGGACACCAAGTTTCCGGATTTCTTCTCCCTAAG
GGCACCCGAAGTACCCTATGCTGGGCTGTGCTGAGAGACCCAGTTTCTTCCAACCCCAAGGACT
TCAATCCCAGCACTTCTGAAATGAGAAGGGCAGTTTAAAGAAGAGTGATGCTTTTTGTGCCCTTTTCCAT
CGGAAAGCGAACTGTTTCGGAGAAGGCCTGGCCAGAATGGAGCTCTTTCTTCTTCCACCCTCATG
CAGAACTTCCGCCTCAAGTCTCCAGTCACCTAAGGACATTGACGTGTCCCCAAACAGTGGGCTTTG
CCACGATCCCACGAAACTACACCATGAGCTTCTGCCCGCTGAGCGAGGGCTGTGCCGGTGCAGGTCTG
GTGGGCGGGGCCAGGAAAGCGGGGTTCAGGGCGGGTTCGCGGAAGAGGCGGGTATAAGAATGGGGGA
AGAT
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000764 unedited

```
NGTTCAAATATTTGTATACGAACCTCACTATAGGGCGGCCGCGACATTCGCACCAGCTGG
CCTCAGGATGCTTCTGGTGGCCTTGCTGGTCTGCCTGACTGTGATGGTCTTGATGTCTGT
TTGGCAGCAGAAGAAGAGCAAGGGGAAGCTGCCTCCGGGACCCACCCATTGCCCTTTAT
TGGAACTACCTGCAGCTGAAACACAGAGCAGATGTACAACCTCCCTCATGAAGACTCAGT
GAGCGCTATGGCCCCGTGTTACCACTTCAACTTGGGGCCCCGGCGGGTCTGGTGTGTG
TGGACAATGATGCCGTGAGGGAGGCTCTGGTGGACCAAGGCTGAGGAGTTCAAGCGGGCG
AAGCGCAGCAAGCCACCTTCGACTGGGTCTTCAAAGGCTATGGCGTGGTATTCAAGCAAC
GGGGAGCGCGCCAAGCAGCTCCGGCGCTTCTCCATTCCGCCACCCTGCGGGAATTCGGGGT
GGGCAAGCGAAGGCATCGAGGAGCGCATCCAGGAAGAGGCGGGCTTCTCATCGACGCC
TTCCGGGGCACTGGCGGCCAATATCGATCCCACCTTTTTCTTGGAGCCGCACAAGTCT
CCAATGTCATCAGCTCCATTGTCTTTGGGAACGCTTTGACTATAAGGAACAAAAGTTCC
TGTCAGTGTGCGCATGATGCTAGGAATCTTCCAGTTCAGTCAACCTCCACGGNGCAGC
TCTATGAAGAAGTTCTTTTCGTGATAAAACACCTGCCAAGAACACAGCAACAGNCCTTT
CAGTGCTGCAAGNNCTGGAGAACTCATAGCCAGAAAGGTGAAGCACAACAGCGACGGCT
TGATNCCAATTNCCACNGAACTTCAATTGACTCTTCTATCGCTGNCAGGAGAAGAAAAA
ACCAAAACGGATTCTACTTGAAGTGTATGAACACGTGAACTTTNATTTGGGGCACCAA
AACGTACACAACCTGGCTAT
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000764 unedited NNNTTTTTTTNNNNNNNTTTTTGACTNTGNACCGCGNCCGCATACNANGATCGAGTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAGGAAATAAACTGCTATTACTACTCTTCA TAGCATAATGTAAGGGTTTCCTTCTCATCCCAGCTCGGAAGCACCTTATCAAGGTGA ACTGAGCCCTTCTGTTTCTTCTTCCCTCTAGCCACCAGCCCTTCCTTTCCCGCAT CTTCCCCCATTCTTATACCCGCCTTTTCCGCGAACCCCGCCCTGACCCCGCCTTCCCT GGCCCCGCCACCAACCTGCACCGGCACAGCCCTCGCTCAGCGGGGCAGGAAGTCATG GTGTAGTTTTCGGGGATCGGGGCAAACCCACGTGTTTGGGGGACACCTCAATGGCCTTA AGGGACTGGGAGGACTTGAGCGGAAAGTTCTTCATGACGGGGGTGAAAAAGAAAAAGAAC TCCATTCTGGCCAGGCCTTCTCGAACAGTTCCGCTTTCCGATGGAAAAGGGGCCAAAAG CATTACTTTTTAACTGGCCCTTCTCATTCAAGAAGTCTGGGGATTGAAGTCTGGG GGTGGAAAAAAACTGGGTCTTTTACCACAGAGCCCCACCTAAGGTCACCTTCCGGGC CCTTAGGGAGGAAAAATCCAACTTGGGGCCTTTTACTTTGGGGCCAACTCTGG GGAACACGTCTCCAAATTTTGGATCCGGGGGACACTGCCCTGTAGGCATTTTGGCC GTCCTAACTGGGCTGCCGTTTTGGCGAACTCTGTGAATTCCTATGGACCTTGGCC TCACCTTTGTGCCTCATGACCACAAGAACCTACGCACAGTGTGCCACGGTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_000764
Insert Size:	1870 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:	<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_000764.2 , NP_000755.2
RefSeq Size:	2281 bp
RefSeq ORF:	1485 bp
Locus ID:	1549
UniProt ID:	P20853
Cytogenetics:	19q13.2
Domains:	p450
Protein Families:	Druggable Genome, P450, 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; its substrate has not yet been determined. This gene, which produces two transcript variants, 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).