

Product datasheet for **SC125476**

CYP4F12 (NM_023944) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4F12 (NM_023944) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP4F12
Synonyms:	CYPIVF12; F22329_1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_023944 edited
 GGTTGTGTGGGACAAGCTGCTCCCGACAGAAGGATGTCGCTGCTGAGCCTGCCCTGGCTG
 GGCTCAGACCGGTGGCAATGTCCCATGGCTACTCCTGCTGCTGGTTGTGGGCTCCTGG
 CTACTCGCCCGCATCCTGGCTTGGACCTATGCCTTCTATAACAACCTGCCCGCGCTCCAG
 TGTTTTCCACAGCCCCAAAACGGAACCTGGTTTTGGGGTACCTGGGCTGATCACTCCT
 ACAGAGGAGGGCTTGAAGGACTCGACCCAGATGTCGGCCACCTATTCCCAGGGCTTTACG
 GTATGGCTGGGTCCCATCATCCCCTTCATCGTTTTATGCCACCCTGACACCATCCGGTCT
 ATCACCAATGCCTCAGCTGCCATTGCACCCAAGGATAATCTTTCATCAGGTTCCCTGAAG
 CCCTGGCTGGGAGAAGGGATACTGCTGAGTGGCGGTGACAAGTGGAGCCGCCACCGTCCG
 ATGCTGACGCCCGCCTTCCATTTCAACATCCTGAAGTCTATATAACGATCTTCAACAAG
 AGTGCAAACATCATGCTTGACAAGTGGCAGCACCTGGCTCAGAGGGCAGCAGTTGTCTG
 GACATGTTTGAGCACATCAGCCTCATGACCTTGGACAGTCTACAGAAATGCATCTTCAGC
 TTTGACAGCCATTGTCAGGAGAGGCCAGTGAATATATTGCCACCATCTTGGAGCTCAGT
 GCCCTTGTAGAGAAAAGAAGCCAGCATATCCTCCAGCACATGGACTTTCTGTATTACCTC
 TCCCATGACGGGGCGCTTCCACAGGGCTGCCGCTGGTGCATGACTTACAGACGCT
 GTCATCCGGGAGCGGCTCGCACCTCCCCTCAGGGTATTGATGATTTTTTCAAAGAC
 AAAGCCAAGTCCAAGACTTTGGATTTTCATTGATGTGCTTCTGCTGAGCAAGGATGAAGAT
 GGAAGGCATTGTGAGATGAGGATATAAGAGCAGAGGCTGACACCTTCATGTTTGGAGGC
 CATGACACCACGGCCAGTGGCCTCCTCGGGTCTGTACAACCTTGCAGGCACCCAGAA
 TACCAGGAGCGCTGCCGACAGGAGGTGCAAGAGCTTCTGAAGGACCGCATCCTAAAGAG
 ATGAAATGGGACGACCTGGCCAGCTGCCCTTCTGACCATGTGCGTGAAGGAGAGCCTG
 AGGTTACATCCCCAGCTCCCTTCATCTCCGATGCTGCACCCAGGACATTGTTCTCCCA
 GATGGCCGAGTCATCCCCAAAGGCATTACCTGCCTCATCGATATTATAGGGGTCCATCAC
 AACCCAACGTGTGTGGCCGATCCTGAGGTCTACGACCCCTTCCGCTTTGACCCAGAGAAC
 AGCAAGGGGAGGTACCTCTGGCTTTTATTCTTTCTCCGACGGGCCAGGAACTGCATC
 GGGCAGGCGTTGCCATGGCGGAGATGAAAGTGGTCTGGCGTTGATGCTGCTGCACTTC
 CGGTTCTGCCAGACCACACTGAGCCCCGAGGAAGCTGGAATTGATCATGCGCGCCGAG
 GGCGGGCTTTGGCTGCGGGTGGAGCCCCTGAATGTAAGCTTGCAGTGACTTTCTGACCCA
 TCCACCTGTTTTTTTGCAGATTGCATGAATAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_023944 unedited
 GGGGTTCAAATTTTGTAAACGACTCACTATAGNNGCGGCCGNAATCCCAGGATGA
 AGAGGAGAAGAGGTTGTGTGGGACAAGCTGCTCCCGACAGAAGGATGTCGCTGCTGAGCC
 TGCCCTGGCTGGGCTCAGACCGGTGGCAATGTCCCATGGCTACTCCTGCTGCTGGTTG
 TGGGCTCCTGGCTACTCGCCCGCATCCTGGCTTGGACCTATGCCTTCTATAACAACCTGCC
 GCCGGCTCCAGTGTTCACACAGCCCCAAAACGGAACCTGGTTTTGGGGTACCTGGGCC
 TGATCACTCCTACAGAGGAGGGCTTGAAGGACTCGACCCAGATGTCGGCCACCTATTCCC
 AGGGCTTTACGGTATGGCTGGGTCCCATCATCCCCTTCATCGTTTTATGCCACCCTGACA
 CCATCCGGTCTATCACCAATGCCTCAGCTGCCATTGCACCCAAGGATAATCTTTCATCA
 GTTTCTGAAGCCCTGGCTGGGAGAAGGGATACTGCTGAGTGGCGGTGACAAGTGGAGCC
 GCCACCGTCGGATGCTGACGCCCGCCTTCCATTTCAACATCCTGAAGTCTATATAACGA
 TCTTCAACAAGAGTGCAAACATCATGCTTGACAAGTGGCAGCACCTGGCCTCAGAGGGCA
 GCAGTTGCTGGACATGTTTGGACATCAGCCTCATGACCTTGGACAGTCTACAGAAAT
 GCATCTTCAGCTTTGACAGCCATTGTCAGGAGAAGCCCAGTGAATATATTGCCACCATCT
 TGGAGCTCAGTCCCCTGTAGAGAAAAAGAGCCAGCATATCCTCCAGCACATGAACCTTC
 TGTATTACCTTCCATGACGGGCGGCTTACAAGGCCTGCCGCTGTTGCATGACTT
 ACAGACGCTGTCATCCGGGAAC

Restriction Sites: Please inquire

ACCN: NM_023944

Insert Size: 1600 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](#)

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_023944.1](#), [NP_076433.1](#)

RefSeq Size: 1694 bp

RefSeq ORF: 1575 bp

Locus ID: 66002

UniProt ID: [Q9HCS2](#)

Cytogenetics: 19p13.12

Protein Families: Druggable Genome, P450, Transmembrane

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 likely localizes to the endoplasmic reticulum. When expressed in yeast the enzyme is capable of oxidizing arachidonic acid. It can also catalyze the epoxidation of 22:6n-3 and 22:5n-3 polyunsaturated long-chain fatty acids. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Transcript Variant: This variant (1) represents the shorter transcript but encodes the supported protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.