

## Product datasheet for SC331266

### CYP4F3 (NM\_001199208) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CYP4F3 (NM\_001199208) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CYP4F3  
**Synonyms:** CPF3; CYP4F; CYP4F3; LTB4H  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331266 representing NM\_001199208.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCACAGCTGAGCCTGTCTCGCTGGGCCTTTGGCCAATGGCAGCATCCCCGGTGGCTGCTCCTGCTG
CTGGTTGGGGCCTCCTGGCTCCTGGCCGCATCCTGGCCTGGACCTATACCTTCTATGACAACTGCTGC
CGCCTCCGGTGTTCCCGCAACCCCGAAACGGAATTGGTTCTTGGGTACCTGGGCCTGGTACCCCC
ACGGAGCAGGGCATGAGGGTCTGACTCAGCTGGTGGCCACCTACCCCAAGGGCTTAAAGTCTGGATG
GGCCCCATCTCCCGTCATCCGTTTTTGGCACCCCAACATCATCCGGTCTGTCATCAACGCCTCAGCT
GCCATTGTACAAAGGACAAGGTCTTCTACAGCTTCTGAAGCCCTGGCTGGGGGATGGGCTCCTGCTG
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CAGCGTTTTCCGACAGGGCTGCCGCTGGTGCACGACTTACAGATGCCGTATCCAGGAGCGGCCCGC
ACCCTCCCTAGCCAGGGTGTGATGACTTCTCCAAGCCAAGGCAAATCCAAGACTTTGGACTTCATT
GATGTACTCCTGCTGAGCAAGGATGAAGATGGGAAGAAGTTGTCGATGAGGACATAAGAGCAGAAGCT
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CCCAAAGGCATTATCTGCCTCATCAGTGTGTTTGGAAACCCATCACAACCCAGCCGTGGCCGGACCT
GAGGTCTATGACCCCTTTCGCTTTGACCCAAAGAATCAAGGAGAGGTACCTCTGGCTTTTATTCCC
TTCTCAGCAGGGCCAGGAAGTGCATCGGGCAGGCGTTCCGGATGGCGGAGATGAAGGTGGTCTGGGG
CTCAGCTGCTGGCTTCCGCTCCTGCCTGACCACCCAGCCCGCAGGAAGCCGGAGCTGGTCTCTG
CGCGCAGAGGGCGGACTTTGGCTGCGGGTGGAGCCCTGAGCTGA
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001199208  
**Insert Size:** 1563 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001199208.1</a></u>
<b>RefSeq Size:</b>	2988 bp
<b>RefSeq ORF:</b>	1563 bp
<b>Locus ID:</b>	4051
<b>UniProt ID:</b>	<u><a href="#">Q08477</a></u>
<b>Cytogenetics:</b>	19p13.12
<b>Protein Families:</b>	Druggable Genome, P450, Transmembrane
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Metabolic pathways
<b>MW:</b>	59.7 kDa
<b>Gene Summary:</b>	<p>This gene, CYP4F3, 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. The enzyme starts the process of inactivating and degrading leukotriene B4, a potent mediator of inflammation. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F8, is approximately 18 kb away. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Apr 2019]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon and contains another alternate in-frame exon compared to variant 1. The resulting isoform (b) is the same length but has a different internal segment compared to isoform a. Variants 2, 3, and 4 all encode the same isoform (b).</p>