

## Product datasheet for **SC120812**

### **CYP1VF8 (CYP4F8) (NM\_007253) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CYP1VF8 (CYP4F8) (NM_007253) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP1VF8
Synonyms:	CPF8; CYP1VF8
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_007253 edited  
 TAGGGCGGCCGGAATTCGGCACGAGGGAGGAGGAGGTTGTGCGGGACAACCTTCTCC  
 TGACAGAAAGGTGCCAGGCTGGGGGTGGCAGGGCTGGATAGGGAGGGGCACTGCCAAGAC  
 TGGGGTGGCTCCAGGGAGCTGGCCCTGGTGATGGGTGCTTGACAGGATGTCGCTGCTGAGC  
 CTGTCTTGGCTGGGCCTCAGGCCGTGGCAGCATCCCCGTGGCTTCTCCTGCTGGTGGTC  
 GGGGCCTCCTGGCTCCTGGCCCGCATCCTGGCCTGGACCTATGCCTTCTATCACAAACGGC  
 CGCCGCCTCCGGTGTTCCTCCGACGCCCGGAAACAGAACTGGTTCTTGGGTCACCTGGGC  
 CTGGTCACTCCACAGAGGAGGGCTTGAGGGTCTGACCCAGCTGGTGGCCACCTACCCC  
 CAGGGCTTTGTGAGGTGGTTGGGCCCATCACTCCCATCATCAACTTGTGCCACCCTGAC  
 ATCGTCCGATCTGTCATCAATACCTCAGATGCCATTACAGACAAGGACATAGTCTTCTAC  
 AAGACCTGAAGCCCTGGCTGGGGATGGGCTCTTGTTAAGTGTGGTGACAAGTGGAGA  
 CACCACCGTCGCTTGTGACGCCTGCCTCCATTTCAACATCCTGAAGCCCTATAAAG  
 ATTTTCAGCAAGAGTGCAAACATCATGCATGCCAAGTGGCAACGCCTGGCCATGGAGGGC  
 AGCACCTGTCTGGATGTGTTTGGACACATCAGCCTTATGACCCTGGACAGTCTGCAGAAA  
 TGCATCTTTAGCTTTGACAGCAATTGTCAGGAGAAGCCAGTGAATATATTACTGCGATC  
 ATGGAGCTCAGTGCCTTGTAGTGAAACGGAATAACCAGTTCCTCCGGTACAAGGACTTC  
 CTGTACTTCTCACTCCCTGTGGACGGCGCTTCCACAGGGCTGCAGACTGGTGCACGAC  
 TTCACAGATGCCGTATCCAGGAGCGGCCGCCACCCCTACTAGCCAGGGTGTGATGAC  
 TTCCTCAAGCCAAGGCCAAGTCCAAGACTTTGGACTTTATTGATGTGCTCCTGTGAGC  
 GAGGATAAAAAATGGTAAAGAGTTGTGATGAGGACATAAGAGCAGAAGCTGACACTTTC  
 ATGTTTGGAGGCCATGACACCACGGCCAGTGGCCTCCTGGGTCTTGTACAACCTCGCG  
 AGGCACCCAGAATACCAAGAAGCTGCCGACGAGGAGTGAAGAGCTTCTGAAGGACCGT  
 GAGCCTAAAGAGATTGAATGGGACGACCTGGCCAGTTGCCCTTCTGACCATGTGCTG  
 AAGGAGAGCCTGCGGTTGCATCCCCAATCCCTACATTGCCCCGGCTGCACCCAGGAC  
 GTGGTGTCCAGACAGCCGAGTCATCCCAAGGGAATGTCTGTAAACATCAACATCTTC  
 GCAATCCATCACAAACCCCTCAGTCTGGCCAGACCCTGAGGTCTATGACCCCTTCCGCTTC  
 GACCCCGAAAACGCCAGAAGAGGTCACCTATGGCTTTTATTCTTTTCTCGGCGGGGCC  
 AGGAACTGCATCGGCAGAAAGTTCGCGATGGCAGAGATGAAGGTGGTCTGGCGTCAAG  
 CTGCTGCGCTTCCGCATCCTGCCGACACAGGGAGCCACGCAGGACGCCGGAGATTGTT  
 TTGCGTGGGAGGACGGACTTTGGCTGCGAGTAGAACCCCTGGGCTGAGGCCTGCAGTGA  
 CCCACCCACTACCTTTGCATCACCTACCTTTGCACCAATTACCTTTTTCAGATTTCCGGT  
 AATAAATCTGTGTTGGCCCTGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGC  
 CCGGTCATAGCTGTTTCTGAACAGATCCCGGTGGCATCCCTGTGACCCCTCCCAGT  
 GCCTCTC

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_007253 unedited  
 GGGCAGCATTTTGTAAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGAGGA  
 GAGGAGGTTGTGCGGGACAACCTTCTCCTGACAGAAGGTGCCAGGCTGGGGGTGGCAGGG  
 CTGGATAGGGAGGGGCACTGCCAAGACTGGGGTGGCTCCAGGGAGCTGGCCCTGGTGAT  
 GGGTGCTTGACAGGATGTCGCTGCTGAGCCTGTCTTGGCTGGCCCTCAGGCCGGTGGCAGC  
 ATCCCCGTGGCTTCTCCTGCTGGTGGTGGGGCCTCCTGGCTCCTGGCCGCATCCTGGC  
 CTGGACCTATGCCTTCTATCACAAACGGCCGCCCTCCGGTGTTCCTCCGACGCCCGGAA  
 ACAGAAGTGGTTCTTGGTCACTGGGCCTGGTCACTCCACAGAGGAGGGCTTGAGGGT  
 CCTGACCCAGCTGGTGGCCACCTACCCCAAGGCTTTGTGAGGTGGTGGGCCCCATCAC  
 TCCCATCATCAACTTGTGCCACCCTGACATCGTCCGATCTGTCATCAATACCTCAGATGC  
 CATTACAGACAAGGACATAGTCTTCTACAAGACCCTGAAGCCCTGGCTGGGGGATGGGCT  
 CTGTAAAGTGTGGTGACAAGTGGAGACACCACCGTCGCTTGGTGGCCCTGCCTTCCA  
 TTTCAACATCCTGAAGCCCTATAAAGATTTTCAGCAAGAGTGCANACATCATGCATGC  
 CAAGTGGCAACGCCTGGCCATGGAGGGCAGCACCTGTCTGGATGTGTTTGGACACATCAG  
 CCTTATGACCCTGNACAGTCTGCAGAAATGCATNCTTAGCTTTGACAGNCATTGTGAGGA  
 GAAGCCAGTGAATATATTACTGCGATCATGGAGCTCAGTGCCTTGTAGTGAACCGGNA  
 TAACCAGTNCCTCCGGTACAG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_007253 unedited GAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTCAGGAAACAGCTAT GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGGGGCCAACACAG ATTTATTACCGGAAATCTGAAAAGGTAATTGGTGCAAAGGTAGGTGATGCAAAGGTAGGT GGTGGGTCACTGCAGGCCTCAGCCAGGGTTCTACTCGCAGCCAAAGTCCGTCCTCCG CACGCAAAACAATCTCCGGCGTCTCGTGGCTCCCTGTGGTCGGGCAGGATGCGGAAGC GCAGCAGCGTGAGCGCCAGGACCACCTTCATCTCTGCCATCGCGAACTTGTCCCGATGC AGTTCCTGGGCCCGCCGAGAAAGGAATAAAAGCCATAGGTGACCTCTTCTGGGCGTTTT CGGGGTCAAGCGGAAGGGTTCATAGACCTCAGGGTCTGGCCAGACTGAGGGGTTGTGAT GGATTGCGAAGATGTTGATGTTACAGACATTCCTTTGGGGATGACTCGGCTGTCTGGGA GCACCACGTCCTGNGTGCAGCCGCGGGCGAATGTAGGGATTGGGGGATGCAACCGCAGGC TCTCTTCAGGCACATGGTCAGGAAGGGCAACTGGGCCAGGTCGTCCTTCAATCTCTT TAGGCTCACGGTCCTTCAGAAGCTTGCACCTCTGCCGGCAGCGTTCTTGGTATTCTG GGTGCCTCGCGAGGTTGTA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_007253
<b>Insert Size:</b>	2000 bp
<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>	<a href="#">NM_007253.2</a> , <a href="#">NP_009184.1</a>
<b>RefSeq Size:</b>	1847 bp
<b>RefSeq ORF:</b>	1563 bp
<b>Locus ID:</b>	11283
<b>UniProt ID:</b>	<a href="#">P98187</a>
<b>Cytogenetics:</b>	19p13.12
<b>Protein Families:</b>	Druggable Genome, P450, Transmembrane

**Gene Summary:**

This gene, CYP4F8, 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 and functions as a 19-hydroxylase of prostaglandins in seminal vesicles. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F3, is approximately 18 kb away. [provided by RefSeq, Jul 2008]