

## Product datasheet for **SC120798**

### **CYP4X1 (NM\_178033) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CYP4X1 (NM_178033) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP4X1
Synonyms:	CYPIVX1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_178033 edited
GGCGGCCGCAATTCGGCACGAGCCTTCTTCTCCCGCGAGTCAGAAGCTTCGCGAGG
GCCAGAGAGGGCGGTGGGGTGGGCGACCCTACGCCAGCTCCGGGCGGGAGAAAGCCACC
CTCTCCCGCGCCCCAGGAAACCGCCGGCGTTCCGGCGTGCAGAGCCATGGAATTCTCC
TGGCTGGAGACGCGCTGGGCGCGGCCCTTTACCTGGCGTTCGTGTTCTGCCTGGCCCTG
GGGCTGCTGCAGGCCATTAAGCTGTACCTGCGGAGGCAGCGGCTGCTGCGGGACCTGCGC
CCCTTCCAGCGCCCCACCCACTGGTTCCTTGGGCACCAAGAAGTTTATTCAGGATGAT
AACATGGAGAAGCTTGAGGAAATTATTGAAAAATACCCTCGTGCCTTCCCTTTCTGGATT
GGGCCCTTTCAGGCATTTTTCTGTATCTATGACCCAGACTATGCAAAGACACTTCTGAGC
AGAACAGATCCCAAGTCCAGTACCTGCAGAAATTCTCACCTCCACTTCTTGAAAAGGA
CTAGCGGCTCTAGACGGACCCAAGTGGTCCAGCATCGTCGCCTACTAACTCCTGGATTC
CATTTTAAACATCCTGAAAGCATAACATTGAGGTGATGGCTCATTCTGTGAAAATGATGCTG
GATAAGTGGGAGAAGATTTGCAGCACTCAGGACACAAGCGTGGAGGTCTATGAGCACATC
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CACCGCTGTACAGTTTGTGTATCACAGTGACATAATTTCAAACCTCAGCCCTCAGGGC
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ATCTCCTGGATCCTTTACTGCCTGGCTCTGAACCTGAGCATCAAGAGAGATGCCGGGAG
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TCCAGAGATCTCAGCAAGCCACTTACCTTCCAGATGGATGCACATTGCCTGCAGGGATC
ACCGTGGTCTTAGTATTTGGGGTCTTACCACAAACCCTGCTGTCTGAAAAAACCCAAAG
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TAAATTTACAGCTAATGATCCAAGCAGATAGAAAGGGATCAATGTATGGTGGGAGGATTG
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TGTCAGCTAGATCTGTTTCTATATAACTTTGGGAGATTTTCAGATCTTTTCTGTTAAACT
TTCACTACTATTAATGCTGTATACACCAATAGACTTTCATATATTTTCTGTTGTTTTTAA
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ACACTAGAAAATCATGTAGAATAAAAAATTTAAATCTCACTTCACTTAGCCGACATTCCA
TGCCCTGACCAATCCTACTGCTTTTCTAAAAACAGAATAATTTGGTGTGCATTCTTTCA
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AAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGAT
CCCGGGTGGCATCCCTGTGACCCCTCCCAAGTGCCTCTCCT
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_178033 unedited  GGCAGCACCTTCGGCACGAGCCTTTCCTTCTTCCCGCAGTCAGAAGCTTCGCGAGGGCC  CAGAGAGGCGGTGGGGTGGGCGACCCTACGCCAGCTCCGGGCGGGAGAAAGCCACCCCTC  TCCCGCGCCCCAGGAAACCGCCGGCGTTCGGCGCTGCGCAGAGCCATGGAATTCTCCTGG  CATGAGACGCGCTGGGCGGGCCCTTTTACCTGGCGTTCGTGTTCTGCCTGGCCCTGGGG  CTGCTGCAGGCCATTAAGCTGTACCTGCGGAGGCAGCGGCTGCTGCGGGACCTGCGCCCC  TTCCCAGCGCCCCCACCCTGGTTCCTTGGGCACCAGAAGTTTATTTCAGGATGATAAC  ATGGAGAAGCTTGAGGAAATTATTGAAAAATACCCTCGTGCCTTCCCTTCTGGATTGGG  CCCTTTCAGGCATTTTTCTGTATCTATGACCCAGACTATGCAAAGACACTTCTGAGCAGA  ACAGATCCCAAGTCCCAGTACCTGCAGAAATTCTCACCTCCACTTCTTGGAAAAGGACTA  GCGGCTCTAGACGGACCAAGTGGTTCAGCATCGTCGCCTACTAACTCCTGGATTCCAT  TTTAACATCCTGAAAGCATACATTGAGGTGATGGCTCATTCTGTGAAAATGATGCTGGAT  AAGTGGGAGAAGATTTGCAGCACTCAGGACACAAGCGTGGGAGTCTATGAGCACATCAAC  TCGATGTCTCTGGATATAATCATGAAATGCGCTTTCAGCAGGGAGACAACGCCAGACAA  ACAGCACCATGATCCTTATGCAAAGCCATATTTTGAAGTACAGCAAAATCATTTTTTAC  CGCTGGTACAGTTGGTTGTTT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_178033 unedited  TCCAGGCCAGGAGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTTCCAGG  AAACAGCTATGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAAGAA  ATAAGGTGAATTTTTATTAAGTAAAAAATCAATAACAATATAGGAATGATCACATCTA  TACAAATACATTGCTACATTTCTACATATAAAATGTATAGAAAAAGTCTGAAAGATGC  ACACCAAATTATTCTGTTTTAGAAAAAGCAGTAGGATTGGTCAGGGCATGGAATGTCGG  CTAAGTGAAGTGAGATTTAAAATTTTTATTCTACATGATTTTCTAGTGTGGGAATTTTT  GACAGTGAGCATACATGCACTTATTACTTGCATAATTCTGAAAATTTTTAAAAACAAC  AGAAAAATATGAAAGTCTATTGGTGTATACAGCATTAAAGTAGTAAAGTTTAAACAGA  AAAGATCTGAAAATCTCCCAAAGTTATATAGAAACAGATCTAGCTGACACACTGTGTACC  TAGAAATGATTTGGATCTTTCACAGAGACCCCTATCCCAACCTCCAATCCTCCCA  CCATACATTGATCCCTTCTATCTGCTTGGATCATTAGCTGTAATTTAACTTCGAAAAA  CAAAGTACGTTTAAATCATTGTACCCTGAGATCTAACATTCAGAGAGTTTCTTC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_178033
<b>Insert Size:</b>	2300 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>

RefSeq: [NM\\_178033.1](#), [NP\\_828847.1](#)

RefSeq Size: 2382 bp

RefSeq ORF: 1530 bp

Locus ID: 260293

UniProt ID: [Q8N118](#)

Cytogenetics: 1

Protein Families: Druggable Genome, P450, Transmembrane

**Gene Summary:** This gene encodes a member of the cytochrome P450 superfamily of enzymes and is located within a cluster of genes belonging to this superfamily on chromosome 1. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. The expression pattern of a similar rat protein suggests that this protein may be involved in neurovascular function in the brain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).