

Product datasheet for **SC128274**

Cytochrome P450 2E1 (CYP2E1) (NM_000773) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 2E1 (CYP2E1) (NM_000773) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome P450 2E1
Synonyms:	CPE1; CYP2E; P450-J; P450C2E
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC128274 sequence for NM_000773 edited (data generated by NextGen Sequencing)

```

ATGTCTGCCCTCGGAGTCACCGTGGCCCTGCTGGTGTGGGCGGCCTTCCTCCTGCTGGT
TCCATGTGGAGGCAGGTGCACAGCAGCTGGAATCTGCCCCAGGCCCTTCCCGCTTCCC
ATCATCGGGAACCTCTCCAGTTGGAATTGAAGAATATCCCAAGTCCTCACCCGGTTG
GCCAGCGCTTCGGGCCGGTGTTCACGCTGTACGTGGGCTCGCAGCGCATGGTGGTGATG
CACGGCTACAAGGCGGTGAAGGAAGCGCTGTGGACTACAAGGACGAGTTCTCGGGCAGA
GGCGACCTCCCCCGTTCCATGCGCACAGGGACAGGGGAATCATTTTTAATAATGGACCT
ACCTGGAAGGACATCCGGCGGTTTTCCCTGACCACCCTCCGGAATATGGGATGGGGAAA
CAGGGCAATGAGAGCCGGATCCAGAGGGAGGCCACTTCTGCTGGAAGCACTCAGGAAG
ACCCAAGGCCAGCCTTTCGACCCACCTTCTCATCGGCTGCGCGCCCTGCAACGCATA
GCCGACATCCTCTCCGCAAGCATTGACTACAATGATGAGAAGTTCTAAGGCTGATG
TATTTGTTAATGAGAACTTCCACCTACTCAGCACTCCCTGGCTCCAGCTTTACAATAAT
TTTCCAGCTTTCTACACTACTTGCTGGAAGCCACAGAAAAGTCATAAAAAATGTGGCT
GAAGTAAAAGAGTATGTGTCTGAAAGGGTGAAGGAGCACCATCAATCTCTGGACCCAAC
TGTCCCCGGGACCTCACGACTGCTGCTGCGTGGAAATGGAGAAGGAAAAGCACAGTGCA
GAGCGCTGTACACAATGGACGGTATCACCGTACTGTGGCCGACCTGTTCTTTCGGGGG
ACAGAGACCACCAGCACAACCTCTGAGATATGGGCTCCTGATTCTCATGAAATACCCTGAG
ATCGAAGAGAAGTCCATGAAGAAATTGACAGGGTGATTGGGCCAAGCCGAATCCCTGCC
ATCAAGGATAGGCAAGAGATGCCCTACATGGATGCTGTGGTGCATGAGATTCAGCGGTT
ATCACCTCGTGCCTCCAACCTGCCCCATGAAGCAACCCGAGACACCATTTTCAGAGGA
TACCTCATCCCCAAGGGCACAGTCGTAGTGCCAACTCTGGACTGTGTTTCGTATGACAAC
CAAGAATTTCTGATCCAGAAAAGTTAAGCCAGAACACTTCTGAATGAAAATGGAAAG
TTCAAGTACAGTACTATTTCAAGCCATTTCCACAGGAAAACGAGTGTGTGCTGGAGAA
GGCCTGGCTCGCATGGAGTTGTTCTTTTGTGTGCCATTTTGCAGCATTTTAATTTG
AAGCCTCTCGTTGACCCAAAGGATATCGACCTCAGCCCTATACATATTGGGTTGGCTGT
ATCCCACCAGTTACAACTCTGTGTCATTCCCCGCTCATGA
    
```

Clone variation with respect to NM_000773.3
1190 t=>c

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_000773 unedited
GGACACAGCGGTACACGACTACTACTAGGGCGGCCGGAACCTCGGCACCAGCAGGGCCCC
AGCGGCACCATGTCCGCCTCGGAGTCACCGTGGCCCCGCGGTGTGGGCGGCCTTCCTC
CTGCTGGTGTCCATGTGGAGGCAGGTGCACAGCAGCTGGAATCTGCCCCAGGCCCTCTC
CCGCTTCCCATCATCGGGAACCTCTCCAGTCGGAATTGAAGAATATCCCAAGTCCTTC
ACCCGTTGGCCAGCGCTTCGGGCCGGTGTTCACGCTGTACGTGGGCTCGCAGCGCATG
GTGGTGTGCACGCTACAAGGCGGTGAAGGAAGCCTGCTGGACTACAAGGACGAGTTC
TCGGGCAGAGGCGACCTCCCCGCTTCCATGCGCACAGGGACAGGGGAATCATTTTTAAT
AATGGACCTACCTGGAAGGACATCCGGCGGTTTTCCCTGACCACCCTCCGGAATATGGG
ATGGGGAAACAGGGCAATGAGAGCCGGATCCAGAGGGAGGCCACTTCTGCTGGAAGCA
CTCAGGAAGACCAAGGCCAGCCTTTCGACCCACCTTCTCATCGGCTGCGCGCCCTGC
AACGTCATAGCCGACATCCTCTCCGCAAGCATTGACTACAATGATGAGAAGTTCTA
AGGCTGATGTATTTGTTAATGAGAACTCCACCTACTCAGCACTCCCTGGCTCCAGCTT
TACAATAATTTCCAGCTTTCTACACTACTTGCTGGAAGCCACAGAAAAGTCATAAAA
AATGTGGCTGAAGTAAAAGAGTATGTGTCTGAAAGGTGAAGGAGCACCATCAATCTCTGG
ACCCCAACTGTCCCGGGACCTCACCGACTGCCTGCTGCGTGGAAATGGAGAGAAAAGCACA
GTGCAGAGCGCTGTACACATGGACGTATCACCGTACTGTGCGACTGTCTTGCGGGACAG
AGACCACCAGCCACTCTGGATATGGCTCCTGATTCTTCATGAAATACCCTGGAGAATCC
G
    
```

Restriction Sites: Please inquire

ACCN:	NM_000773
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_000773.3 , NP_000764.1
RefSeq Size:	1667 bp
RefSeq ORF:	1482 bp
Locus ID:	1571
UniProt ID:	P05181
Cytogenetics:	10q26.3
Domains:	p450
Protein Families:	Druggable Genome, P450, Transmembrane
Protein Pathways:	Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450
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 and is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer. [provided by RefSeq, Jul 2008]