

Product datasheet for **SC310864**

Cytochrome p450 2C19 (CYP2C19) (NM_000769) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome p450 2C19 (CYP2C19) (NM_000769) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome p450 2C19
Synonyms:	CPCJ; CYP2C; CYP11C17; CYP11C19; P450C2C; P45011C19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000769 edited
 ATGGATCCTTTTGTGGTCTTGTGCTCTGTCTCATGTTTGCTTCTCCTTTCAATCTGG
 AGACAGAGCTCTGGGAGAGGAAAACCTCCCTCCTGGCCCCACTCCTCTCCCAGTGATTGGA
 AATATCCTACAGATAGATATTAAGGATGTCAGCAAATCCTTAACCAATCTCTCAAAAATC
 TATGGCCCTGTGTTCACTCTGTATTTTGGCCTGGAACGCATGGTGGTCTGCATGGATAT
 GAAGTGGTGAAGGAAGCCCTGATTGATCTTGGAGAGGAGTTTTCTGGAAGAGGCCATTTT
 CCACTGGTTGAAAGAGCTAACAGAGGATTGGAATCGTTTTTCAGCAATGGAAAGAGATGG
 AAGGAGATCCGGCGTTTTCTCCCTCATGACGCTGCGGAATTTTGGGATGGGGAAGAGGAGC
 ATTGAGGACCGTGTCAAGAGGAAGCCCGCTGCCTTGTGGAGGAGTTGAGAAAAACCAAG
 GCTTACCCTGTGATCCCACTTTCATCCTGGGCTGTGCTCCCTGCAATGTGATCTGCTCC
 ATTATTTTCCAGAAACGTTTCGATTATAAAGATCAGCAATTTCTTAACCTGATGGAAAAA
 TTGAATGAAAACATCAGGATTGTAAGCACCCCTGGATCCAGATATGCAATAATTTTCCC
 ACTATCATTGATTATTTCCCGGAACCCATAACAAATTACTTAAAAACCTTGCTTTTATG
 GAAAGTGATATTTGGAGAAAGTAAAAGAACACCAAGAATCGATGGACATCAACAACCT
 CGGACTTTATTGATTGCTTCTGATCAAATGGAGAAGGAAAAGCAAACCAACAGTCT
 GAATTCATATTGAAAACCTGGTAATCACTGCAGCTGACTTACTTGGAGCTGGGACAGAG
 ACAACAAGCACAACCTGAGATATGCTCTCCTTCTCCTGCTGAAGCACCCAGAGGTCACA
 GCTAAAGTCCAGGAAGAGATTGAACGTGTGTTGGCAGAAACCGGAGCCCTGCATGCAG
 GACAGGGGCCACATGCCCTACACAGATGCTGTGGTGCACGAGGTCAGAGATACATCGAC
 CTCATCCCCACCAGCCTGCCCATGCAGTGACCTGTGACGTTAAATTCAGAACTACCTC
 ATTTCCCAAGGGCACAACCATATTAACCTCCCTCACTTCTGTGCTACATGACAACAAGAA
 TTTCCCAACCCAGAGATGTTTACCCTCGTCACTTCTGGATGAAGGTGGAAATTTTAAG
 AAAAGTAACTACTTCATGCCTTTCTCAGCAGGAAAACGGATTTGTGTTGGGAGAGGCGCTG
 GCCCGCATGGAGCTGTTTTTATTCTGACCTTCAATTTTACAGAATTTAACCTGAAATCT
 CTGATTGACCCAAAGGACCTTGACACAACCTCCTGTTGTCAATGGATTTGCTTCTGTCCTG
 CCCTTCTATCAGCTGTGCTTCATTCTGCTGAAGAAGCACAGATGGTCTGGCTGCTCCT
 GTGCTGTCCCTGCAGCTCTTTTCTCTGGTCCAAATTTCACTATCTGTGATGCTTCTTC
 TGACCCGTCATCT

Restriction Sites: Please inquire

ACCN: NM_000769

Insert Size: 1500 bp

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).

OTI Annotation: There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers this to be a polymorphism and to reflect the natural differences between individuals. This results in the substitution of 1 aa.

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_000769.1 , NP_000760.1
RefSeq Size:	1473 bp
RefSeq ORF:	1473 bp
Locus ID:	1557
UniProt ID:	P33261
Cytogenetics:	10q23.33
Domains:	p450
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism
Gene Summary:	<p>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 known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, omeprazole, diazepam and some barbiturates. Polymorphism within this gene is associated with variable ability to metabolize mephenytoin, known as the poor metabolizer and extensive metabolizer phenotypes. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. [provided by RefSeq, Jul 2008]</p>