

Product datasheet for **SC310335**

CYP2C18 (NM_000772) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP2C18 (NM_000772) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP2C18
Synonyms:	CPCI; CYP2C; CYP2C17; P450-6B/29C; P450IIC17
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

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>OriGene sequence for NM_000772 edited
TCAAGGAAAAACAACAACAACAACAACAATCCTGGGCTCTGCTTCAGACTAGTTAAAC
CAGAATCTCCAGGGTGGGGCACC GGAAAGAACAAGAAAAAGAACACCTTATTTTTATCT
TCTTCAGTGAGCCAATGTTCAATCAAAGAGAGATTAAAGTGCTTTTTGCTGACTAGTCA
CAGTCAGAGTCAGAATCACAGGTGGATTAGTAGGGAGTGTTATAAAAGCCTTGAAGTGAA
AGCCCCGAGTTGTCTTACTAAGAAGAGAAGCCTTCAATGGATCCAGCTGTGGCTCTGGTG
CTCTGTCTCTCCTGTTTGTCTCTCTTTCACTCTGGAGGCAGAGCTCTGGAAGAGGGGAGG
CTCCCGTCTGGCCCACTCCTCTCCCGATTATTGGAAATATCCTGCAGTTAGATGTTAAG
GACATGAGCAAATCCTTAACCAATTTCTCAAAGTCTATGGCCCTGTGTTCACTGTGAT
TTTGGCCTGAAGCCATTGTGGTGTTCATGGATATGAAGCAGTGAAGGAGGCCCTGATT
GATCATGGAGAGGAGTTTTCTGGAAGAGGAAGTTTTCCAGTGGCTGAAAAAGTTAACAAA
GGACTTGGAAATCCTTTTCAGCAATGGAAAGAGATGGAAGGAGATCCGGCGTTTTCTGCCTC
ATGACTCTGCGGAATTTGGGATGGGGAAGAGGAGCATCGAGGACCGTGTCAAGAGGAA
GCCCGCTGCCTTGTGGAGAGTTGAGAAAAACCAATGCCTCACCTGTGATCCCCTTTT
ATCCTGGGCTGTCTCCCTGCAATGTGATCTGCTCTGTTATTTTCCATGATCGATTGAT
TATAAAGATCAGAGGTTTCTTAACCTTGATGGAAAAATCAATGAAAACCTCAGGATTCTG
AGCTCTCCATGGATCCAGGTCTGCAATAATTTCCCTGCTCTCATCGATTATCTCCAGGA
AGTCATAATAAAATAGCTGAAAATTTTGCTTACATTAAGATTTATGATTGGAGAGAATA
AAAGAACATCAAGAAATCCCTGGACATGAACAGTGTCTGGGACTTTATTGATTGTTTCTG
ATCAAAATGGAACAGGAAAAGCACAAATCAACAGTCTGAATTTACTGTTGAAAGCTTGATA
GCCACTGTAACATGATGTTTGGGGCTGGAACAGAGACAACGAGCACCCTCTGAGATAT
GGACTCCTGCTCCTGCTGAAGTACCCAGAGGTCACAGCTAAAGTCCAGGAAGAGATTGAA
TGTGTAGTTGGCAGAAACCGGAGCCCCTGTATGCAGGACAGGAGTCACATGCCCTACACA
GATGCTGTGGTGCACGAGATCCAGAGATACATTGACCTCCTCCCAACCTGCCCCAT
GCAGTGACCTGTGATGTTAAATTCAAAAACTACCTCATCCCAAGGGCACGACCATAATA
ACATCCCTGACTTCTGTGCTGCACAATGACAAAGAATTCCCAACCCAGAGATGTTTGAC
CCTGGCCACTTTCTGGATAAGAGTGGCAACTTTAAGAAAAGTGACTACTTCATGCCTTTC
TCAGCAGGAAAACGGATGTGTATGGGAGAGGGCCTGGCCCGCATGGAGCTGTTTTTATTC
CTGACCACCAATTTGCAGAACTTTAACCTGAAATCTCAGGTTGACCCAAAGGATATTGAC
ATCACCCCATTTGCCAATGCATTTGGTCGTGTGCCACCCTTGACCAGCTCTGCTTCATT
CCTGTCTGAAGAAGGGCAGATAGTTTGGCTGCTCCTGTGCTGTACCTGCAATTCCTCT
TATCAGGGCCATTGGCCTCTCCCTCTCTCTGTGAGGGATATTTTCTCTGACTTGTCAT
CCACATCTTCCATTCCCTCAAGATCCAATGAACATCCAACCTCCATTAAGAGAGTTTC
TTGGGTCACTTCTAAATATATCTGCTATTCTCCATACTCTGTATCACTTGATTGACCA
CCACATATGCTAATACCTATCTACTGCTGAGTTGTGAGTATGTTATCACTAGAAAACAAA
GAAAAATGATTAATAATGACAATTCAGAGCCAAAAAAGGAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

>Reverse primer walk for NM_000772 unedited
 NGGGGCTGGTTACCAGGNAAACTCANATCTGNAGTTTTTCATTGATTTTTCCATCAAGTTA
 AAAAACTCTGATCTTTATAATCAAATCGATCATGGNAAAATAACAGAGCAGATCACATT
 GCAGGGAGCACAGCCCAGGATGAAAGTGGGATCACAGGGTGAGGCATTGGTTTTTCTCAA
 CTCCTCCACAAGGCAGCGGGCTTCTCTTGAACACGGTCTCGATGCTCCTCTTCCCAT
 CCCCCAAATCCGCAGAGTCATGAGGCAGAAACGCCGATCTCCTCCATCTCTTTCCATT
 GCTGAAAAGGATTCCAAGTCTTTGTTAACTTTTTTCAGCCACTGGAAAACCTTCTCTTCC
 AGAAAACCTCTCCTCATGATCAATCAGGGCTCCTTCACTGCTTCAATCCATGCAACAC
 CACAATGGGCTTTCAGGCCAAAATACACAGTGAACACAGGGCCATAGACTTTTGAGAAATT
 GGTAAAGGATTTGCTCATGTCCTTAACATCTAACTGCAGGATATTTCCAATAATCGGGAG
 AGGAGTGGGGCCAGACGGGAGCCTCCCTCTTCCAGAGCTCGCCTCCAGAGTGAAGGGAG
 AAACAAACAGGAGAGACAGAGCACCAGGCCACAGCTGGATCCATTGAAGGCTTCTCTTC
 TTAGTAAGACAACCTGCGGGCTTCACTTCAAGGCTTTTATAAACTCCCTACTAATCCAC
 CTGTGATTCTGACTCTGACTGTGACTAGTCAGCANAAAGCACTTAAATCTCTTTTTGAA
 TGAACATTGGCTCACTGAAGAAGATAAAAATAAGGTGTTCTTTTTTCTTGGTCTTTCGGT
 GCCCACCTGGAGATTCTGGTTAACTAGTCTGAAGCAGAAGCCAGATTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000772 unedited
 NGGCCCCATTGGNGAATGGCACTTCCAGGNCCAGNANGAGCACTGGNNGNAGGGGTAC
 AGGGNATGCCACCCGGTCTGTTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGT
 CGAGTTTTTTTTTTTTTTTTTTTTTTGGCTCTGAATTGCATTTATTAATCATTTTTCTT
 TGTTTTCTAGTGATAACATACTGACAACCTCAGCAGTAGATAGGTATTAACATATGTGGT
 GTCAATACAAGTGATACAGAGTATGGAGAATAGCAGATATATTTAGGAAGTGACCCAAGA
 AACTCTCTTTAATGGAGTTGGATGTTTATTGGATCTTGAGGGAATGGGAAGATGTGGAT
 TGACAAGTCAGAGAAAATATCCCTCACAGAGAGAAGGGAGAGGCCAATGGCCCTGATAAG
 GGAGAATTGCAGGTGACAGCACAGGAGCAGCCAAACTATCTGCCCTTCTTCCAGACAGGAA
 TGAAGCAGAGCTGGTACAAGGGTGGCACACGACCAAAATGCATTGGCAATGGGGGTGATGT
 CAATATCCTTTGGGTCAACCTGAGATTTTCAAGTTAAAGTTCTGCAAAAATGGTGGTCAGGA
 AAAAAACAGCTCCATGCGGGCCAGGCCCTCTCCATACACATCCGTTTTCTCTGCTGAGA
 AAGGCATGAAGTAGTCACTTTTTCTTAAAGTTGCCACTCTTATCCAGAAAAGTGGCCAGGGT
 CAAACATCTCTGGTTGGGGAATTCTTTGTCAATTGTGCAGCACAGAAGTCAGGGATGTTA
 TTATGGTCGTGCCCTTGGGGATGAAGTAGTTTTTGAATTAACATCACAGGTCAGTGCAT
 GGGGCANGTTGGTGGGAAGAAGTCAATGTATCTCTGGATCTCGTGCACCACAGCATCTC

Restriction Sites:

Please inquire

ACCN:

NM_000772

Insert Size:

2100 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_000772.1 , NP_000763.1
RefSeq Size:	1995 bp
RefSeq ORF:	1473 bp
Locus ID:	1562
UniProt ID:	P33260
Cytogenetics:	10q23.33
Domains:	p450
Protein Families:	Druggable Genome, P450
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 but its specific substrate has not yet been determined. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. An additional gene, CYP2C17, was once thought to exist; however, CYP2C17 is now considered an artefact based on a chimera of CYP2C18 and CYP2C19. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>