

Product datasheet for **SC106226**

Cytochrome P450 2C9 (CYP2C9) (BC020754) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 2C9 (CYP2C9) (BC020754) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytochrome P450 2C9
Synonyms:	CPC9; CYP2C; CYP2C10; cytochrome P-450 S-mephenytoin 4-hydroxylase; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase); cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 10; MGC88320; MGC149605; OTTHUMP00000020135; P450IIC9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC020754 edited TTCAATGGATTCTCTTGTGGTCTTGTGCTCTGTCTCATGTTTGCTTCTCCTTTCACT CTGGAGACAGAGCTCTGGGAGAGGAAAACCTCCCTCTGGCCCCACTCCTCTCCAGTGAT TGGAAATATCCTACAGATAGGTATTAAGGACATCAGCAAATCCTTAACCAATCTCTCAA GGTCTATGGCCCTGTGTTCACTCTGTATTTGGCCTGAAACCCATAGTGGTGCTGCATGG ATATGAAGCAGTGAAGGAAGCCCTGATTGATCTTGGAGAGGAGTTTCTGGAAGAGGCAT TTTCCCACTGGCTGAAAGAGCTAACAGAGGATTTGGAATTGTTTTTCAGCAATGGAAGAA ATGGAAGGAGATCCGGCGTTTCTCCCTCATGACGCTGCGGAATTTTGGGATGGGGAAGAG GAGCATTGAGGACCGTGTCAAGAGGAAGCCCGCTGCCTTGTGGAGGAGTTGAGAAAAAC CAAGGGTGGGTGA
Restriction Sites:	Please inquire
ACCN:	BC020754
Insert Size:	500 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to BC020754.1.



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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:	<u>BC020754.1</u> , <u>AAH20754.1</u>
RefSeq Size:	1459 bp
RefSeq ORF:	489 bp
Locus ID:	1559
Cytogenetics:	10q23.33
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:	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 its expression is induced by rifampin. The enzyme is known to metabolize many xenobiotics, including phenytoin, tolbutamide, ibuprofen and S-warfarin. Studies identifying individuals who are poor metabolizers of phenytoin and tolbutamide suggest that this gene is polymorphic. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. [provided by RefSeq, Jul 2008]