

Product datasheet for MC206516

Cyp2e1 (BC013451) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2e1 (BC013451) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp2e1
Synonyms:	Cyp2e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC013451

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>BC013451
GTGGAGCCCATCGGCACCATGGCGTTCTTGGCATCACCGTTGCCTTGCTGTCTGGATCGCCACCTC
CTCCTCGTATCCATCTGGAACAGATCTATAGAAGTTGGAACCTGCCCCAGGACCTTTCCAATTCCTT
TCTTTGGAAACATTTTTAGCTGGATTTGAAGGATATTCCAAGTCTTTAACCAAGTTGGCAAAGCGCTT
CGGGCCAGTGTTCACTGCACCTGGGTGAGAGGCGCATCGTGGTCTGCATGGCTACAAGGCTGTCAAG
GAGGTGCTACTGAACCACAAGAATGAGTCTCTGGCCGAGGGGACATTCTGTGTTCCAGGAGTACAAGA
ACAAGGGGATTATTTCAATAATGGACCCACATGGAAGGACGTGCGGAGGTTTTCCCTAAGTATCCTCCG
TGACTGGGGAATGGGAAACAGGGTAATGAGGCCCGCATCCAAGAGAGGCACACTTCTGGTGGAGGAG
CTCAAAAAGACCAAAGGCCAGCCTTTTGACCCTACCTTTCTGATTGGCTGTGCACCCTGCAATGTCATTG
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ATTTAACTCTGTGTCATTCTCGTTCATGAGACCTGCTGCCATCATTATCCCTTACAAAATGACTGTT
TAAAAAATGCCAAGCGGGCTGGTGAAGTGGCTCAGTGGGTAAGAGCACCCGACTGCTCTCCGAAGGTC
CGGAGTCAAATCCCAGCAACCACATGGTGGCTACAACCATCTGTATCGAGATCTGACTCTGTCTCTG
GAGTGTCTGAAGACAGCTACAGTACTTACATATAATAAATAAATAAGTCTTTAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:	EcoRI-NotI
ACCN:	BC013451
Insert Size:	1482 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).
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>BC013451</u> , <u>AAH13451</u>
RefSeq Size:	1759 bp
RefSeq ORF:	1482 bp
Locus ID:	13106
Cytogenetics:	7 85.94 cM
Gene Summary:	A cytochrome P450 monooxygenase involved in the metabolism of fatty acids. Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH--hemoprotein reductase). Catalyzes the hydroxylation of carbon-hydrogen bonds. Hydroxylates fatty acids specifically at the omega-1 position displaying the highest catalytic activity for saturated fatty acids. May be involved in the oxidative metabolism of xenobiotics.[UniProtKB/Swiss-Prot Function]