

Product datasheet for **MC217187**

Cyp4x1 (NM_001003947) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4x1 (NM_001003947) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp4x1
Synonyms:	A230025G20; Cyp4a28-ps; CYP1VX1; CYP_a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217187 representing NM_001003947
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGGCTCCTGGCTGGAGACTCGTTGGGCGGCCCTTGACCTGGCTTTGGTGTCTGCCTGGCGC
 TGGTGCTGATGCAGGCCATGAAGCTCTACCTGCGGAGACAGCAGCTGCTGCGCGACTGAGCCCTTCCC
 GGGCCTCCCGCCACTGGCTCCTGGGACACCAGAAGTTTCTTCAGGAGGATAATATGGAGACGCTTGAT
 GAGATTGTCAAAAAGCACCCCTTGTGCCTCCCCTGCTGGGTAGGGCCCTCCAGGCATTTTTCTACATCT
 ATGACCCAGACTATGCGAAGATATTTCTGAGCAGAACAGACCCAAAGATGCAGTATCTGCACCAGCTCCT
 GACTCCATGCATTGGACGAGGACTCCTGAATTTAGATGGGCCAGGTGGTTCCAACACCGCTGCCTCCTA
 ACTCCTGCATTCCATCAGGACATCTAAAACCATGTGTGGACACGATGGCCACTCTGTGAAAGTATGAC
 TGGATAAATGGGAGAAGATGTGGACCACTCAGGAAACAACCATCGAGGTTTTTGAACACATCAACTTGAT
 GACCCTGGACATAATAATGAAATGTGCTTTTGGCCAGGAGACCAACTGCCAGATAAACGGCACCTATGAG
 TCTTACGTGAAGCAACATTTGAACTTGGTGAATCATATCTTCTCGCTTGTACAATTTCTGGCATCATC
 ATGACATAATTTTCAAACCTCAGTCTTAAGGGCCACTGCTTCCAGGAGTTAGGCAAAGTGATACATCAATA
 CACAGAAAAGATAATCCAGGACAGAAAAGAAATCCTCAAGAATCAAGTAAAGCAGGATGACACTCAGACG
 TCTCAAATTTTTCTGGATATTGTTCTTTCTGCACAGGCTGAAGATGAACGAGCCTTCTCAGATGCTGACC
 TTCGGGCTGAGGTGAACACCTTCATGTGGGCAGGACATGATGCCTCTGCAGCTAGCATCTCCTGGCTCCT
 TTAAGTCTGGCTCTAAATCCCGAGCATCAGGACAGATGCCGGACAGAGATCAGGAGCATCTCCTGGGAGAT
 GGGTCTTCCATCACCTGGGAACAGCTGGATGAGATGTCATACACCACAATGTGCATCAAGGAGACACTCC
 GCTTGATTCTCCTGTCCATCCATCTCCAGGGAGCTCAGCAAACCCCTTACCCTCCAGATGGACACTC
 ACTGCCTGCAGGTATGACTGTGGTCTTAGTATTTGGGGTCTCCACCACAACCCCTGCTGTCTGGAACGAC
 CCAAAGGTCTTTGACCCCTTGAGATTTACTAAGGAGAATTCTGATCAGAGACACCCTGTGCCTTCTAC
 CATTCTCCAGTGGTCCAAGGAACTGCATCGGGCAGCAGTTTGCCATGCTGGAGCTAAAGGTGGCCATTGC
 CTTGATTCTGCTCCACTTTCAAGTAGCTCCAGACCTCACCAGGCCTCCTGCCTTCTCCAGCCACACTGTC
 CTCAGACCCAAGCATGGAATCTATTTGCACCTGAAGAACTCCTTGAGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001003947

Insert Size: 1524 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:

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_001003947.1](#), [NP_001003947.1](#)

RefSeq Size: 1524 bp

RefSeq ORF: 1524 bp

Locus ID: 81906

UniProt ID: [Q6A152](#)

Cytogenetics: 4 D1

Gene Summary: A cytochrome P450 monooxygenase that selectively catalyzes the epoxidation of the last double bond of the arachidonoyl moiety of anandamide, potentially modulating endocannabinoid signaling. Has no hydroxylase activity toward various fatty acids, steroids and prostaglandins. 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 (CPR; NADPH-ferrihemoprotein reductase). [UniProtKB/Swiss-Prot Function]