

## Product datasheet for **MR215201L4V**

### Cyp4x1 (NM\_001003947) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Cyp4x1 (NM_001003947) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Cyp4x1
Synonyms:	A230025G20; Cyp4a28-ps; CYPIVX1; CYP_a
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001003947
ORF Size:	1521 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR215201).
OTI Disclaimer:	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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_001003947.1</a>
RefSeq Size:	1524 bp
RefSeq ORF:	1524 bp
Locus ID:	81906
UniProt ID:	<a href="#">Q6A152</a>
Cytogenetics:	4 D1


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**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]