

Product datasheet for **RC205760L2V**

CYP1A1 (NM_000499) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	CYP1A1 (NM_000499) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CYP1A1
Synonyms:	AHH; AHRR; CP11; CYP1; CYPIA1; P1-450; P450-C; P450DX
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000499
ORF Size:	1536 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC205760).
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. More info
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:	NM_000499.2
RefSeq Size:	2608 bp
RefSeq ORF:	1539 bp
Locus ID:	1543
UniProt ID:	P04798
Cytogenetics:	15q24.1
Domains:	p450
Protein Families:	Druggable Genome, P450, Transmembrane



[View online »](#)

Protein Pathways: Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tryptophan metabolism

MW: 58.2 kDa

Gene Summary: This gene, CYP1A1, 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 some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. The gene has been associated with lung cancer risk. A related family member, CYP1A2, is located approximately 25 kb away from CYP1A1 on chromosome 15. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2016]