

Product datasheet for **RC228881L4V**

CYP51A1 (NM_001146152) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	CYP51A1 (NM_001146152) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CYP51A1
Synonyms:	CP51; CYP51; CYPL1; LDM; P450-14DM; P450L1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001146152
ORF Size:	1212 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC228881).
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_001146152.1 , NP_001139624.1
RefSeq Size:	2934 bp
RefSeq ORF:	1215 bp
Locus ID:	1595
UniProt ID:	Q16850
Cytogenetics:	7q21.2
Protein Families:	Druggable Genome, P450, Transmembrane
Protein Pathways:	Metabolic pathways, Steroid biosynthesis



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MW: 46.3 kDa

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 endoplasmic reticulum protein participates in the synthesis of cholesterol by catalyzing the removal of the 14alpha-methyl group from lanosterol. Homologous genes are found in all three eukaryotic phyla, fungi, plants, and animals, suggesting that this is one of the oldest cytochrome P450 genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]