

OriGene Technologies, Inc.

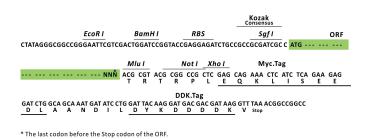
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Product datasheet for RC220997L1

Cytochrome P450 2C9 (CYP2C9) (NM_000771) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 2C9 (CYP2C9) (NM_000771) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Cytochrome P450 2C9
Synonyms:	CPC9; CYP2C; CYP2C10; CYPIIC9; P450IIC9
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC220997).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1 ORF Miu I GCG ATC GCC ATG // NNÑ ACG CGT



ACCN: ORF Size: NM_000771 1470 bp



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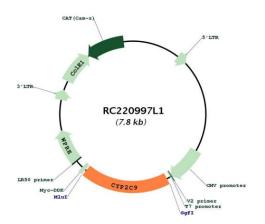
	hrome P450 2C9 (CYP2C9) (NM_000771) Human Tagged Lenti ORF Clone – RC220997L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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>NM 000771.2</u>
RefSeq Size:	1835 bp
RefSeq ORF:	1473 bp
Locus ID:	1559
UniProt ID:	<u>P11712</u>
Cytogenetics:	10q23.33
Domains:	p450
Protein Families:	Druggable Genome, P450
Protein Pathways:	Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism
MW:	55.4 kDa

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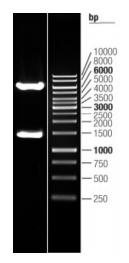
Stochrome P450 2C9 (CYP2C9) (NM_000771) Human Tagged Lenti ORF Clone – RC220997L1 Cytochrome P450 2C9 (CYP2C9) (NM_000771) Human Tagged Lenti ORF Clone – RC220997L1

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 protein localizes
to the endoplasmic reticulum and its expression is induced by rifampin. The enzyme is known
to metabolize many xenobiotics, including phenytoin, tolbutamide, ibuprofen and S-warfarin.
Studies identifying individuals who are poor metabolizers of phenytoin and tolbutamide
suggest that this gene is polymorphic. The gene is located within a cluster of cytochrome
P450 genes on chromosome 10q24. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC220997L1



Double digestion of RC220997L1 using Sgfl and Mlul

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