

Product datasheet for RC211728L4

OriGene Technologies, Inc.

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CYP11A1 (NM_001099773) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CYP11A1 (NM_001099773) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: CYP11A1

Synonyms: CYP11A; CYPXIA1; P450SCC

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC211728).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001099773

ORF Size: 1089 bp





CYP11A1 (NM_001099773) Human Tagged Lenti ORF Clone - RC211728L4

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.

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: <u>NM 001099773.1</u>

 RefSeq Size:
 2010 bp

 RefSeq ORF:
 1092 bp

 Locus ID:
 1583

 UniProt ID:
 P05108

Cytogenetics: 15q24.1

Protein Families: Druggable Genome, P450

Protein Pathways: C21-Steroid hormone metabolism, Metabolic pathways

MW: 42.6 kDa

Gene Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The

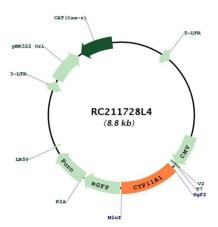
cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes

to the mitochondrial inner membrane and catalyzes the conversion of cholesterol to pregnenolone, the first and rate-limiting step in the synthesis of the steroid hormones. Two transcript variants encoding different isoforms have been found for this gene. The cellular location of the smaller isoform is unclear since it lacks the mitochondrial-targeting transit

peptide. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC211728L4