

### Product datasheet for RC221358L2

#### OriGene Technologies, Inc.

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## Aromatase (CYP19A1) (NM\_031226) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Aromatase (CYP19A1) (NM\_031226) Human Tagged Lenti ORF Clone

Tag: mGFF

Symbol: Aromatase

Synonyms: ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM

Mammalian Cell None

Selection:

Vector:pLenti-C-mGFP (PS100071)E. coli Selection:Chloramphenicol (34 ug/mL)

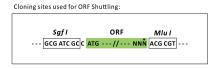
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC221358).

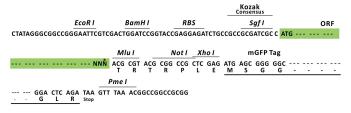
Sgfl-Mlul

Sequence:

equence.

Restriction Sites: Cloning Scheme:





st The last codon before the Stop codon of the ORF.

**ACCN:** NM\_031226

ORF Size: 1509 bp





#### Aromatase (CYP19A1) (NM\_031226) Human Tagged Lenti ORF Clone - RC221358L2

**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 031226.1</u>

 RefSeq Size:
 3116 bp

 RefSeq ORF:
 1512 bp

 Locus ID:
 1588

 UniProt ID:
 P11511

Domains: p450

Cytogenetics:

**Protein Families:** Druggable Genome, P450

15q21.2

**Protein Pathways:** Androgen and estrogen metabolism, Metabolic pathways

**MW:** 57.7 kDa

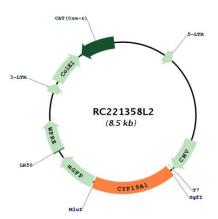
**Gene Summary:** This gene encodes a member of the cytochrome P450 superfamily of enzymes. The

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 endoplasmic reticulum and catalyzes the last steps of estrogen biosynthesis. Mutations in this gene can result in either increased or decreased aromatase activity; the associated phenotypes suggest that estrogen functions both as a sex steroid hormone and in growth or differentiation. Alternative promoter use and alternative splicing results in multiple transcript

variants that have different tissue specificities. [provided by RefSeq, Dec 2016]



# **Product images:**



Circular map for RC221358L2