

Product datasheet for RC224082L3

OriGene Technologies, Inc.

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CYP4A22 (NM_001010969) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CYP4A22 (NM_001010969) Human Tagged Lenti ORF Clone

Tag: Myc-DDK Symbol: CYP4A22 **Mammalian Cell**

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

ORF Nucleotide

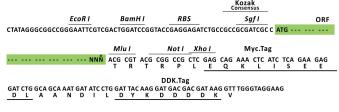
The ORF insert of this clone is exactly the same as(RC224082).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001010969

ORF Size: 1557 bp



CYP4A22 (NM_001010969) Human Tagged Lenti ORF Clone - RC224082L3

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 001010969.2</u>

RefSeq Size: 1668 bp
RefSeq ORF: 1560 bp
Locus ID: 284541
UniProt ID: Q5TCH4

Cytogenetics: 1p33

Protein Families: P450, Transmembrane

Protein Pathways: Arachidonic acid metabolism, Fatty acid metabolism, Metabolic pathways, PPAR signaling

pathway, Retinol metabolism, Vascular smooth muscle contraction

MW: 59.1 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 gene is part of a cluster of cytochrome P450 genes on chromosome 1p33. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]