

Product datasheet for RC226594L4

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FDPS (NM_001135822) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: FDPS (NM_001135822) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: FDPS

Synonyms: FPPS; FPS; POROK9

Mammalian Cell Puromycin

Selection:

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(RC226594).

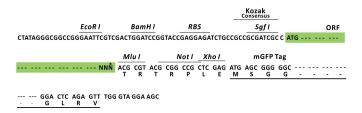
Sgfl-Mlul

Sequence:

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Restriction Sites: Cloning Scheme:



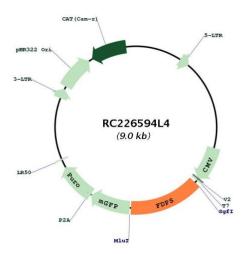


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001135822

ORF Size: 1260 bp

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: NM 001135822.1, NP 001129294.1

RefSeq Size: 1357 bp RefSeq ORF: 1062 bp



FDPS (NM_001135822) Human Tagged Lenti ORF Clone - RC226594L4

 Locus ID:
 2224

 UniProt ID:
 P14324

 Cytogenetics:
 1q22

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Terpenoid backbone biosynthesis

MW: 48.3 kDa

Gene Summary: This gene encodes an enzyme that catalyzes the production of geranyl pyrophosphate and

farnesyl pyrophosphate from isopentenyl pyrophosphate and dimethylallyl pyrophosphate. The resulting product, farnesyl pyrophosphate, is a key intermediate in cholesterol and sterol biosynthesis, a substrate for protein farnesylation and geranylgeranylation, and a ligand or agonist for certain hormone receptors and growth receptors. Drugs that inhibit this enzyme prevent the post-translational modifications of small GTPases and have been used to treat

diseases related to bone resorption. Multiple pseudogenes have been found on

chromosomes 1, 7, 14, 15, 21 and X. Multiple transcript variants encoding different isoforms

have been found for this gene.[provided by RefSeq, Oct 2008]