

## Product datasheet for **SC330021**

### FDPS (NM\_001242824) Human Untagged Clone

#### Product data:

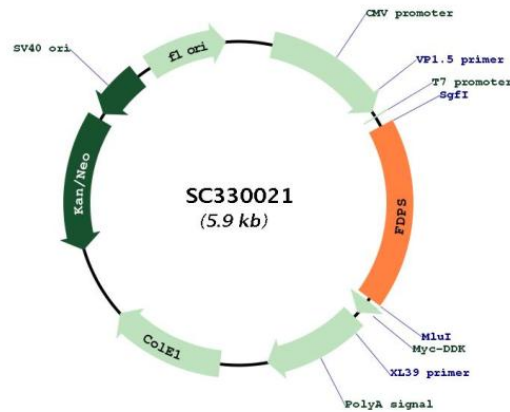
**Product Type:** Expression Plasmids  
**Product Name:** FDPS (NM\_001242824) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** FDPS  
**Synonyms:** FPPS; FPS; POROK9  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330021 representing NM\_001242824.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGAACGGAGACCAGAATTCAGATGTTTATGCCCAAGAAAAGCAGGATTCGTTACGACTTCTCCAG
ATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGATAGGAGATGCTATTGCCCGGCTCAAG
GAGGTCTGGAGTACAATGCCATTGGAGGCAAGTATAACCGGGGTTTGACGGTGGTAGTAGCATTCCGG
GAGCTGGTGGAGCCAAGGAAACAGGATGCTGATAGTCTCCAGCGGGCCTGGACTGTGGGCTGGTGTG
GAACTGCTGCAAGCTTTCTTCTGGTGGCAGATGACATCATGGATTCATCCCTTACCCGCCGGGGACAG
ATCTGCTGGTATCAGAAGCCGGGCGTGGGTTTGGATGCCATCAATGATGCTAACCTCCTGGAAGCATGT
ATCTACCGCTGCTGAAGCTCTATTGCCGGGAGCAGCCCTATTACCTGAACCTGATCGAGCTCTTCTG
CAGAGTTCCTATCAGACTGAGATTGGGCAGACCCTGGACCTCCTCACAGCCCCCAGGGCAATGTGGAT
CTTGTCAGATTCAGTAAAAGAGGTACAAATCTATTGTCAAGTACAAGACAGCTTTCTACTCCTTCTAC
CTTCTATAGCTGCAGCCATGTACATGGCAGGAATTGATGGCGAGAAGGAGCAGCCCAATGCCAAGAAG
ATCCTGCTGGAGATGGGGGAGTTCTTTCAGATTCAGGATGATTACCTTGACCTTTTGGGGACCCAGT
GTGACCGGCAAAATTGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTGGTTCAGTGTCTGCAA
CGGGCCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTACGGGCAGAAGGAGGCTGAGAAAGTGGCC
CGGGTGAAGGCGCTATATGAGGAGCTGGATCTGCCAGCAGTGTCTTCTGCAATATGAGGAAGACAGTTAC
AGCCACATTATGGCTCTCATTGAACAGTACGCAGCACCCCTGCCCCAGCCGTCTTTCTGGGCTTGGC
CGCAAAATCTACAAGCGGAGAAAGTGA
```

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001242824

**Insert Size:** 1062 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001242824.1](#)

**RefSeq Size:** 1378 bp

RefSeq ORF:	1062 bp
Locus ID:	2224
UniProt ID:	<a href="#">P14324</a>
Cytogenetics:	1q22
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Terpenoid backbone biosynthesis
MW:	40.5 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]

Transcript Variant: This variant (4) lacks an alternate exon at its 5' end and uses a downstream translation initiation codon, compared to variant 1. The resulting isoform (b) has a shorter N-terminus when compared to isoform a. Both variants 3 and 4 encode the same isoform (b).

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.