

## Product datasheet for **RC203499L4V**

### FDPS (NM\_002004) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	FDPS (NM_002004) Human Tagged ORF Clone Lentiviral Particle
Symbol:	FDPS
Synonyms:	FPFS; FPS; POROK9
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_002004
ORF Size:	1257 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203499).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_002004.2</a>
RefSeq Size:	1555 bp
RefSeq ORF:	1260 bp
Locus ID:	2224
UniProt ID:	<a href="#">P14324</a>
Cytogenetics:	1q22
Domains:	polyprenyl_synt
Protein Families:	Druggable Genome



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**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]