

## Product datasheet for **RC232559**

### FDPS (NM\_001242824) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FDPS (NM\_001242824) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** FDPS  
**Synonyms:** FPPS; FPS; POROK9  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232559 representing NM\_001242824  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAACGGAGACCAGAATTCAGATGTTTATGCCAAGAAAAGCAGGATTCGTTACGACTTCTCCCAGA  
TCGTTAGGGTGTGACTGAGGATGAGATGGGCCACCCAGAGATAGGAGATGCTATTGCCCGCTCAAGGA  
GGTCTGGAGTACAATGCCATTGGAGGCAAGTATAACCGGGTTTGACGGTGGTAGTAGCATTCCGGGAG  
CTGGTGGAGCCAAGGAAACAGGATGCTGATAGTCTCCAGCGGGCCTGGACTGTGGGCTGGTGTGGAA  
TGCTGCAAGCTTTCTTCTGGTGGCAGATGACATCATGGATTCATCCCTTACCCGCCGGGACAGATCTG  
CTGGTATCAGAAGCCGGGCGTGGGTTGGATGCCATCAATGATGCTAACCTCCTGGAAGCATGTATCTAC  
CGCCTGTGAAGCTCTATTGCCGGGAGCAGCCCTATTACCTGAACCTGATCGAGCTTCTCTGCAGAGTT  
CCTATCAGACTGAGATTGGGCAGACCCTGGACCTCCTCACAGCCCCCAGGGCAATGTGGATCTTGTGAG  
ATCACTGAAAAGAGGTACAAAATCTATTGTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCTATA  
GCTGCAGCCATGTACATGGCAGGAATTGATGGCGAGAAGGAGCACGCCAATGCCAAGAAGATCCTGCTGG  
AGATGGGGGAGTTCTTTCAGATTACAGGATGATTACCTTGACCTTTTGGGGACCCAGTGTGACCCGCAA  
AATTGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTGGTTCAGTGTCTGCAACGGGCCACTCCA  
GAACAGTACCAGATCCTGAAGGAAAATTACGGGAGAAGGAGGCTGAGAAAGTGGCCCGGTGAAGGCGC  
TATATGAGGAGCTGGATCTGCCAGCAGTGTCTTGAATATGAGGAAGACAGTTACAGCCACATTATGGC  
TCTCATTGAACAGTACGCAGCACCCCTGCCCCAGCCGTCTTCTGGGGCTTGCAGCAGAAATCTACAAG  
CGGAGAAAG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232559 representing NM\_001242824  
 Red=Cloning site Green=Tags(s)

MNGDQNSDVYAQEKQDFVQHFSQIVRVL TEDEMGHPEIGDAIARLKEVLEYNAIGGKYNRGLTVVAFRE  
 LVEPRKQDADSLQRAWTVGWCVELLQAFFLVADDIMDSSLTRRGQICWYQKPGVGLDAINDANLLEACIY  
 RLLKLYCREQPYLNLIELFLQSSYQTEIGQTLDLLTAPQGNVDLVRFTKRYKSIWKYKTAFYSFYLP  
 AAAMYMAGIDGEGEHANAKKILLEMGEFFQIQDDYLDLFGDPSVTGKIGTDIQDNKCSWL VVQCLQRATP  
 EQYQILKENYGGQKEAKVARVKALYEELDLPVFLQYEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYK  
 RRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

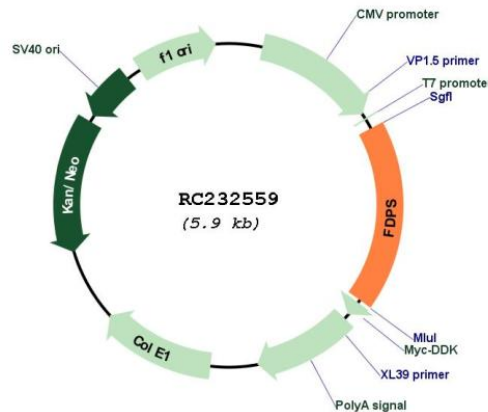
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001242824

<b>ORF Size:</b>	1059 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001242824.2</a>
<b>RefSeq Size:</b>	1378 bp
<b>RefSeq ORF:</b>	1062 bp
<b>Locus ID:</b>	2224
<b>UniProt ID:</b>	<a href="#">P14324</a>
<b>Cytogenetics:</b>	1q22
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Terpenoid backbone biosynthesis
<b>MW:</b>	41 kDa
<b>Gene Summary:</b>	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]