

## Product datasheet for **RR214736**

### Fdps (NM\_031840) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fdps (NM\_031840) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fdps  
**Synonyms:** Ac2-125; FPS  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR214736 representing NM\_031840  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAATGGGGACCAGAACTGGATGTTTCATAACCAAGAAAAGCAGAATTCATCCAGCACTTCTCCAGA  
TTGTCAAGGTGCTGACTGAGGATGAACTGGACACCCAGAGAAGGGAGATGCTATTACCCGGATCAAGA  
GGTCCTGGAGTACAACACTGTAGGAGGCAAGTACAATCGGGGTCTGACGGTGGTACAGACCTTCCAGGAA  
CTGGTGAACCAAGGAAACAGGATGCTGAGAGCCTACAGCGGGCCCTGACGGTGGCTGGTGTAGAAC  
TGCTCCAGGCTTTCTTCCCTCGTGTAGATGACATCATGGACTTCTCCCACTCGCCGGGGCAGATCTG  
CTGGTATCAGAAGCCGGGCATAGGCTTGGATGCCATCAACGATGCTCTGCTTCTGGAAGCCGCTATCTAC  
CGCCTGCTTAAGTTCTACTGCAGGGAGCAGCCCTACTACCTCAACCTGCTGGAGCTTTTCTACAGAGTT  
CCTATCAGACTGAGATCGGGCAGACTCTCGACCTCATCACAGCACCCAGGGCCAAGTGGATCTTGGTAG  
ATACACTGAAAAGAGGTACAAATCTATCGTCAAGTACAAGACAGCTTTCTACTCTTTCTACCTGCATC  
GCGGCTGCCATGTACATGGCTGGAATTGATGGGAGAAGGAACACGCTAATGCCCTGAAGATCCTGCTGG  
AGATGGGCGAGTTCTTCCAGATCCAGGACGACTACCTTGATCTCTTGGAGACCCAGTGTGACCCGAA  
GGTCGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTGGTTCAGTGTCTGCTACGAGCCACTCT  
CAGCAGCGCCAGATCTTAGAGGAGAATTATGGGAGAAGGACCCAGAAAAAGTGGCGCGGGTGAAGCAC  
TGTACGAGGAGCTGGATCTGCGGAGTGTGTTCTTCAAGTACGAGGAAGACAGTTACAACCGCTCAAGAG  
TCTCATAGAGCAGTGTCCGCGCCCTGCCCCATCCATCTTCTGGAAGTAGCAAAACAAGATCTACAAG  
CGGAGAAAG

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214736 representing NM\_031840  
 Red=Cloning site Green=Tags(s)

MNGDQKLDVHNQEKQNF IQHFSQIVKVL TEDELGHPEKGD AITRIKEVLEYNTVGGKYNRGLTVVQTFQE  
 LVEPRKQDAESLQRAL TVGWCVELLQAFFLVLDDIMDSSHTRRGQICWYQKPGIGLDAINDALLLEAAIY  
 RLLKIFYCREQPYLNLLELFLQSSYQTEIGQTLDLITAPQGQVDLGRYTEKRYKSIVKYKTAFYSFYLP  
 AAAMYMAGIDGKEHANALKILLEMEFFQIQDDYLDLFGDPSVTGKVGTDIQDNKCSWL VVQCLLRATP  
 QQRQILEENYGGQKDPKVARVKALYEELDLRSVFFKYEEDSYNRLKSLIEQCSAPLPPSIFLELANKIYK  
 RRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

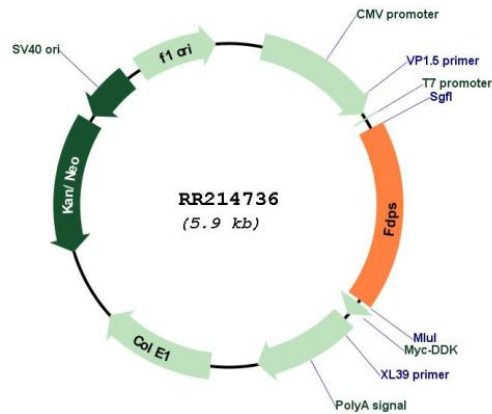
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_031840

<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_031840.1</a> , <a href="#">NP_114028.1</a>
<b>RefSeq Size:</b>	1271 bp
<b>RefSeq ORF:</b>	1062 bp
<b>Locus ID:</b>	83791
<b>UniProt ID:</b>	<a href="#">P05369</a>
<b>Cytogenetics:</b>	2q34
<b>MW:</b>	40.8 kDa
<b>Gene Summary:</b>	catalyzes the conversion of geranyl diphosphate and isopentenyl diphosphate to diphosphate and trans, trans-farnesyl diphosphate in the isoprene biosynthetic pathway [RGD, Feb 2006]