

## Product datasheet for **MC227606**

### Fdps (NM\_001253751) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fdps (NM_001253751) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fdps
Synonyms:	6030492I17Rik; AI256750; Fdpsl1; mKIAA1293
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC227606 representing NM\_001253751  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCTGTCTGCTGGCTGAGATCTCTGGGGTCTTCTGCTGCCAGCCCCCTGCTGGGCACCCCGGG  
 AGAGGTGGCTTGGTTTCTACAACGACCCCTCCCTGGCATATGGGTGCCAGTCTGGGGCTGGCACAG  
 TGCCCGCTGGTGGTGCCAAGTGTGGACAGAGGAGCCTCGAGCATTTAGCTCCTCTGTGAGATGAATGGG  
 AACAGAAATTGGATGCTTATAACCAAGAAAAGCAGAATTTTCATCCAGCACTTCTCCAGATCGTCAAGG  
 TGCTGACTGAGAAGGAGCTGGGACACCCAGAGATAGGGGATGCTATTGCCCGGCTCAAGGAGGTCTAGA  
 GTACAATGCCTTAGGAGGCAAGTACAACCGGGTTTGACCGTGGTACAAGCCTTCCAGGAGCTGGTGGAG  
 CCGAAGAAACAGGATGCTGAGAGTCTTCAGCGGGCCCTGACAGTGGGCTGGTGTGTAAGTCTCCAGG  
 CTTTCTCCTTGTGTGAGATGACATCATGGACTTTCCTCACTCGCCGGGACAGATCTGCTGGTATCA  
 GAAGCCAGGCATAGGCTTGGATGCCATCAACGACGCTCTGCTTCTGGAAGCCTCCATCTATCGTTTGCTG  
 AAGTTCTACTGCAGGGAGCAGCCCTACTACCTGAACCTGCTGGAGCTCTTCTGCAGAGTTCCTATCAGA  
 CAGAGATCGGGCAGACTCTAGACCTCATGACAGCACCCAGGGCCATGTGGATCTTGGTAGATACACTGA  
 AAAGAGGTACAAATCGATTGTCAAGTACAAGACGGCTTTCTACTTTCTACCTGCCTATTGCGGCCGCC  
 ATGTACATGGCAGGCATTGATGGGGAGAAGAACACGCCAATGCCCTGAAGATCCTGATGGAGATGGGCG  
 AGTTCTTCCAGGTCCAGGACGACTACCTTGATCTCTTTGGAGACCCAGTGTGACGGGAAAGGTCCGGCAC  
 TGACATCCAGGACAACAAATGCAGCTGGCTGGTGGTTCAGTGTCTGCTACGAGCCTCTCCTCAACAGCGC  
 CAGATCTTAGAGGAGAATTATGGGCAGAAGGACCCAGAAAAAGTGGCTCGGGTGAAGCACTGTATGAGG  
 CGCTGGATCTGCAGTCTGCTTTCTCAAGTATGAGGAAGACAGTTACAACCGCCTCAAGAGTCTCATAGA  
 GCAGTGCTCTGCCCCCTGCCCCATCCATCTTCATGGAATTGCAACAAGATCTACAACCGGAGAAAG  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001253751
- Insert Size:** 1263 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001253751.1](#), [NP\\_001240680.1](#)

**RefSeq Size:** 1478 bp

**RefSeq ORF:** 1263 bp

**Locus ID:** 110196

**UniProt ID:** [Q920E5](#)

**Cytogenetics:** 3 39.01 cM

**Gene Summary:** Key enzyme in isoprenoid biosynthesis which catalyzes the formation of farnesyl diphosphate (FPP), a precursor for several classes of essential metabolites including sterols, dolichols, carotenoids, and ubiquinones. FPP also serves as substrate for protein farnesylation and geranylgeranylation. Catalyzes the sequential condensation of isopentenyl pyrophosphate with the allylic pyrophosphates, dimethylallyl pyrophosphate, and then with the resultant geranylpyrophosphate to the ultimate product farnesyl pyrophosphate (By similarity).  
[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).