

## Product datasheet for MR229817

### Fdps (NM\_001253751) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Fdps (NM\_001253751) Mouse Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Fdps  
Synonyms: 6030492I17Rik; AI256750; Fdpsl1; mKIAA1293  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Restriction Sites: SgfI-MluI  
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

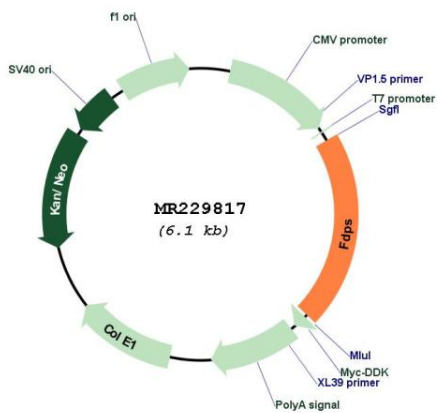
ACCN: NM\_001253751  
ORF Size: 1260 bp



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<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>	<u>NM_001253751.1, NP_001240680.1</u>
<b>RefSeq Size:</b>	1478 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	110196
<b>UniProt ID:</b>	<u>Q920E5</u>
<b>Cytogenetics:</b>	3 39.01 cM
<b>MW:</b>	48.8 kDa
<b>Gene Summary:</b>	<p>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).</p> <p>[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR229817