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Product datasheet for MR205363

Fdps (NM_134469) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fdps (NM_134469) 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)

ORF Nucleotide Sequence:

>MR205363 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGGGAACCAGAAATTGGATGCTTATAACCAAGAAAAGCAGAATTTCATCCAGCACTTCTCCCAGA
TCGTCAAGGTGCTGACTGAGAAGGAGCTGGGACACCCAGAGATAGGGGATGCTATTGCCCGGCTCAAGGA
GGTCCTAGAGTACAATGCCTTAGGAGGCAAGTACAACCGGGGTTTGACCGTGGTACAAGCCTTCCAGGAG
CTGGTGGAGCCGAAGAAACAGGATGCTGAGAGTCTTCAGCGGGCCCTGACAGTGGGCTGGTGTGTAGAAC
TGCTCCAGGCTTTCTTCCTTGTGTCAGATGACATCATGGACTCTTCCCTCACTCGCCGGGGACAGATCTG
CTGGTATCAGAAGCCAGGCATAGGCTTGGATGCCATCAACGACGCTCTGCTTCTGGAAGCCTCCATCTAT
CGTTTGCTGAAGTTCTACTGCAGGGAGCAGCCCTACTACCTGAACCTGCTGGAGCTCTTTCTGCAGAGTT
CCTATCAGACAGAGATCGGGCAGACTCTAGACCTCATGACAGCACCCCAGGGCCATGTGGATCTTGGTAG
ATACACTGAAAAGAGGTACAAATCGATTGTCAAGTACAAGACGGCTTTCTACTCTTTCTACCTGCCTATT
GCGGCCGCCATGTACATGGCAGGCATTGATGGGGAGAAGGAACACGCCAATGCCCTGAAGATCCTGATGG
AGATGGGCGAGTTCTTCCAGGTCCAGGACGACTACCTTGATCTCTTTGGAGACCCCAGTGTGACGGGAAA
GGTCGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTGGTTCAGTGTCTGCTACGAGCCTCTCCT
CAACAGCGCCAGATCTTAGAGGAGAATTATGGGCAGAAGGACCCAGAAAAAGTGGCTCGGGTGAAAGCAC
TGTATGAGGCGCTGGATCTGCAGTCTGCTTTCTTCAAGTATGAGGAAGACAGTTACAACCGCCTCAAGAG
TCTCATAGAGCAGTGCTCTGCGCCCCTGCCCCCATCCATCTTCATGGAACTTGCAAACAAGATCTACAAA
CGGAGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

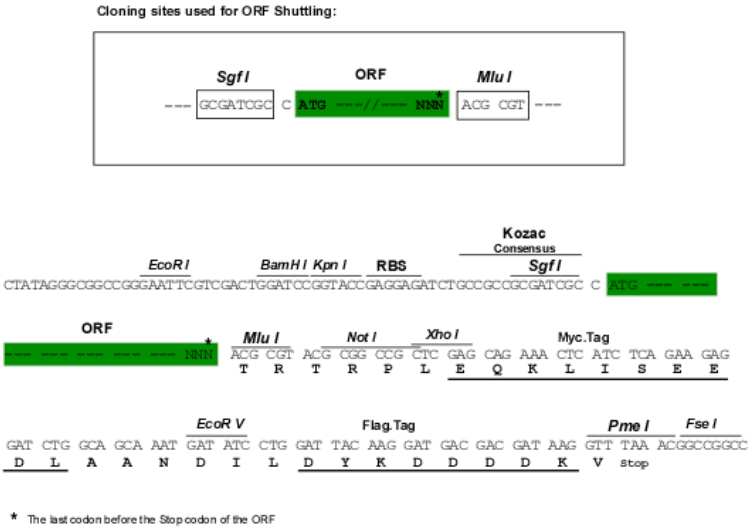
>MR205363 protein sequence
Red=Cloning site Green=Tags(s)

MNGNQKLDAYNQEKQNFIQHFSQIVKVLTEKELGHPEIGDAIARLKEVLEYNALGGKYNRGLTVVQAFQE
LVEPKKQDAESLQRALTVGWCVELLQAFFLVSDDIMDSSLTRRGQICWYQKPGIGLDAINDALLLEASIY
RLLKFYCREQPYYLNLLELFLQSSYQTEIGQTLDLMTAPQGHVDLGRYTEKRYKSIVKYKTAFYSFYLPI
AAAMYMAGIDGEKEHANALKILMEMGEFFQVQDDYLDLFGDPSVTGKVGTDIQDNKCSWLVVQCLLRASP
QQRQILEENYGQKDPEKVARVKALYEALDLQSAFFKYEEDSYNRLKSLIEQCSAPLPPSIFMELANKIYK
RRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134469

ORF Size: 1062 bp

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. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_134469.4, NP_608219.1

RefSeq Size: 1262 bp

RefSeq ORF: 1062 bp

Locus ID: 110196

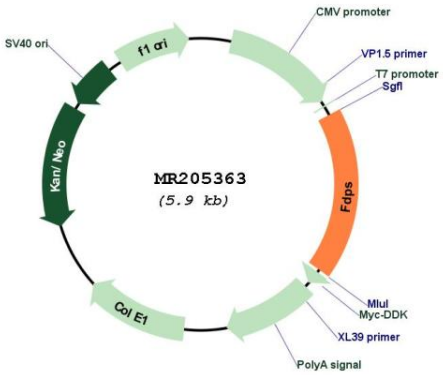
UniProt ID: Q920E5

Cytogenetics: 3 39.01 cM

MW: 40.6 kDa

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]

Product images:



Circular map for MR205363