

Product datasheet for **RG226594**

FDPS (NM_001135822) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FDPS (NM_001135822) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FDPS
Synonyms:	FPPS; FPS; POROK9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226594 representing NM_001135822 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGTCCCCTGGTTGAGATCTGTGGGGTCTTCCTGCTGCCAGCCCCCTACTGGGCACCCGGG
AGAGGTGGCTGGTTCCCTACGGCGGCCCTCCCTGGTGCACGGGTACCCAGTCTGGCCTGGCACAGTGC
CCGCTGCTGGTCCAAGCGTGGACAGAGAACCTCGAGCCCTTTGCTCCTCCCTCAGAATGAACGGAGAC
CAGAATTCAGATGTTTATGCCAAAGAAAAGCAGGATTTTCGTTCACTTCTCCAGATCGTTAGGGTGC
TGACTGAGGATGAGATGGGCACCCAGAGATAGGAGATGCTATTGCCCGCTCAAGGAGTCTGGAGTA
CAATGCCATTGGAGGCAAGTATAACCGGGTTTGACGGTGGTAGTAGCATTCCGGGAGCTGGTGGAGCCA
AGGAAACAGGATGCTGATAGTCTCCAGCGGGCCTGGACTGTGGGCTGGTGTGGAACTGCTGCAAGCTT
TCTTCTGGTGGCAGATGACATCATGGATTCATCCCTACCCGCCGGGGACAGATCTGCTGGTATCAGAA
GCCGGGCTGGTGGTGGATGCCATCAATGATGCTAACCTCCTGGAAGCATGTATCTACCGCTGCTGAAG
CTCTATTGCCGGGAGCAGCCCTATTACCTGAACCTGATCGAGCTTCTGTCAGAGTTCCATCAGACTG
AGATTGGCAGACCCTGGACCTCCTCACAGCCCCCAGGGCAATGTGGATCTTGTGAGATTCACTGAAAA
GAGGTACAAATCTATTGTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCTATAGCTGCAGCCATG
TACATGGCAGGAATTGATGGCGAGAAGGAGCACGCCAATGCCAAGAAGATCCTGCTGGAGATGGGGGAGT
TCTTTCAGATTACAGGATGATTACCTTGACCTCTTTGGGGACCCAGTGTGACCGGCAAAATTGGCACTGA
CATCCAGGACAACAAATGCAGCTGGCTGGTGGTTCAGTGTCTGCAACGGGCCACTCCAGAACAGTACCAG
ATCCTGAAGGAAAATTACGGGCAGAAGGAGGCTGAGAAAGTGGCCGGGTGAAGGCCTATATGAGGAGC
TGGATCTGCCAGCAGTGTCTTGAATATGAGGAAGACAGTTACAGCCACATTATGGCTCTCATTGAACA
GTACGCAGCACCCCTGCCCCAGCCGTCTTCTGGGGCTTGCAGCAAAATCTACAAGCGGAGAAAAG

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226594 representing NM_001135822
 Red=Cloning site Green=Tags(s)

MPLSRWLRSVGVFLLPAPYWAPRERWLGSLRRPSLVHGYPVLAWHSARCWCQAWTEEPALCSSLRMNGD
 QNSDVVYAQEKQDFVQHF SQIVRVL TEDEMGHPEIGDAIARLKEVLEYNAIGGKYNRGLTVVVAFRELVEP
 RKQDADSLQRAWTVGWCVELLQAFFLVADDIMDSSLTRRGQICWYQKPGVGLDAINDANLLEACIYRLK
 LYCREQPYLNLIELFLQSSYQTEIGQTLDLLTAPQGNVDLVRFTKRYKSIKVYKTAFYSFYLPAAAM
 YMAGIDGKEHANAKKILLEMEFFQIQDDYLDLFGDPSVTGKIGTDIQDNKCSWLVVQCLQRATPEQYQ
 ILKENYGQKEAEKVARVKALYEELDLPVFLQYEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYKRRK

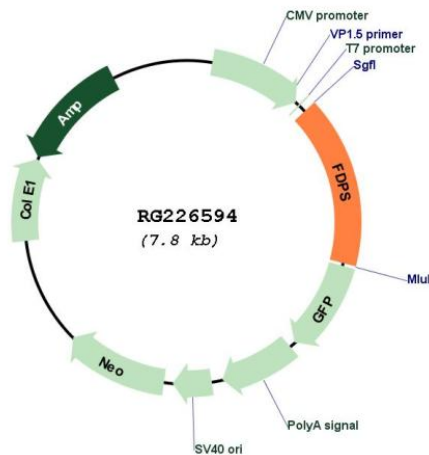
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135822

ORF Size:	1260 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:	<ol style="list-style-type: none">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_001135822.1 , NP_001129294.1
RefSeq Size:	1357 bp
RefSeq ORF:	1062 bp
Locus ID:	2224
UniProt ID:	P14324
Cytogenetics:	1q22
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Terpenoid backbone biosynthesis
Gene Summary:	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]