

Product datasheet for **RG232275**

FDPS (NM_001242825) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FDPS (NM_001242825) 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:	>RG232275 representing NM_001242825 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCATCCCTTACCCGCCGGGACAGATCTGCTGGTATCAGAAGCCGGGCGTGGGTTTGGATGCCA
TCAATGATGCTAACCTCCTGGAAGCATGTATCTACCGCTGCTGAAGCTCTATTGCCGGGAGCAGCCCTA
TTACCTGAACCTGATCGAGCTCTCCTGCAGAGTTCTATCAGACTGAGATTGGGCAGACCTGGACCTC
CTCACAGCCCCCAGGGCAATGTGGATCTTGTCAGATTCAGTAAAAGAGGTACAATCTATTGTCAAGT
ACAAGACAGCTTTCTACTCCTTCTACCTCCTATAGCTGCAGCCATGTACATGGCAGGAATTGATGGCGA
GAAGGAGCAGCCAATGCCAAGAAGATCCTGCTGGAGATGGGGGAGTTCTTTAGATTGAGGATGATTAC
CTTGACCTCTTTGGGGACCCAGTGTGACCGGCAAAATTGGCACTGACATCCAGGACAACAATGCAGCT
GGCTGGTGGTTCAGTGTCTGCAACGGGCCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTACGGGCA
GAAGGAGGCTGAGAAAGTGGCCCGGTGAAGGCGCTATATGAGGAGCTGGATCTGCCAGCAGTGTCTTG
CAATATGAGGAAGACAGTTACAGCCACATTATGGCTCTCATTGAACAGTACGCAGCACCCCTGCCCCAG
CCGCTTTCTGGGGCTTGCGCGCAAAATCTACAAGCGGAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232275 representing NM_001242825
Red=Cloning site Green=Tags(s)

M D S S L T R R G Q I C W Y Q K P G V G L D A I N D A N L L E A C I Y R L L K L Y C R E Q P Y L N L I E L F L Q S S Y Q T E I G Q T L D L
 L T A P Q G N V D L V R F T E K R Y K S I V K Y K T A F Y S F Y L P I A A A M Y M A G I D G E K E H A N A K K I L L E M G E F F Q I Q D D Y
 L D L F G D P S V T G K I G T D I Q D N K C S W L V V Q C L Q R A T P E Q Y Q I L K E N Y G Q K E A E K V A R V K A L Y E E L D L P A V F L
 Q Y E E D S Y S H I M A L I E Q Y A A P L P P A V F L G L A R K I Y K R R K

TRTRPLE - GFP Tag - V

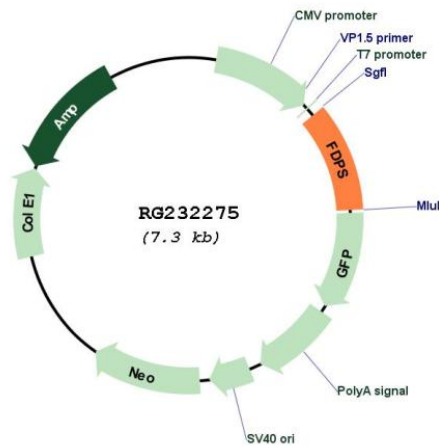
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001242825

ORF Size: 744 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_001242825.1 , NP_001229754.1
RefSeq Size:	1215 bp
RefSeq ORF:	747 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]