

Product datasheet for SC302872

GGPS1 (NM 001037278) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: GGPS1 (NM_001037278) Human Untagged Clone

Tag: Tag Free
Symbol: GGPS1

Synonyms: GGPPS; GGPPS1

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Fully Sequenced ORF: >SC302872 representing NM_001037278.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTTGCATAATGCCAGTTTACTCATCGATGATATTGAAGACAACTCAAAACTCCGACGTGGCTTTCCA
GTGGCCCACAGCATCTATGGAATCCCATCTGTCATCAATTCTGCCAATTACGTGTATTTCCTTGGCTTG
GAGAAAGTCTTAACCCTTGATCACCCAGATGCAGTGAAGCTTTTTACCCGCCAGCTTTTTGGAACTCCAT
CAGGGACAAGGCCTAGATATTTACTGGAGGGATAATTACACTTGTCCCACTGAAGAAGAATATAAAGCT
ATGGTGCTGCAGAAAACAGGTGGACTGTTTGGATTACCAGTAGGTCTCATGCAGTTGTTCTCTGATTAC
AAAGAAGATTTAAAACCGCTACTTAATACACTTGGGCTCTTTTTCCAAATTAGGGATGATTATGCTAAT
CTACACTCCAAAGAATATAGTGAAAACAAAAGTTTTTGTGAAGATCTGACAGAGGGAAAGTTCTCATTT
CCTACTATTCATGCTATTTGGTCAAGGCCTGAAAGCACCCAGGTGCAGAATATCTTGCGCCAGAGAACA
GAAAACATAGATATAAAAAAAATACTGTGTACATTATCTTGAGGATGTAGGTTCTTTTTGAATACACTCGT
AATACCCTTAAAGAGCTTGAAGCCTAAAACCATATGATGCACCTGGTGGGAACCCTGAGCTA

GTAGCCTTAGTAAAACACTTAAGTAAGATGTTCAAAGAAGAAAATGAA<mark>TAA</mark>

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT

TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-Mlul



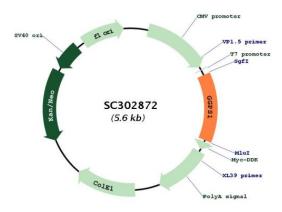
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Plasmid Map:



ACCN: NM_001037278

Insert Size: 741 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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 001037278.1



GGPS1 (NM_001037278) Human Untagged Clone - SC302872

RefSeq Size: 2828 bp
RefSeq ORF: 741 bp
Locus ID: 9453
Cytogenetics: 1q42.3

Protein Pathways: Metabolic pathways, Terpenoid backbone biosynthesis

MW: 28.4 kDa

Gene Summary: This gene is a member of the prenyltransferase family and encodes a protein with

geranylgeranyl diphosphate (GGPP) synthase activity. The enzyme catalyzes the synthesis of GGPP from farnesyl diphosphate and isopentenyl diphosphate. GGPP is an important molecule responsible for the C20-prenylation of proteins and for the regulation of a nuclear hormone receptor. Alternate transcriptional splice variants, both protein-coding and non-

protein-coding, have been found for this gene. [provided by RefSeq, Sep 2010] Transcript Variant: This variant (3) lacks an exon in the coding region, which results in initiation of translation at a downstream AUG. The resulting protein (isoform B) has a shorter

N-terminus than isoform A.