

## Product datasheet for **SC321054**

### GGPS1 (NM\_004837) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GGPS1 (NM\_004837) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GGPS1  
**Synonyms:** GGPPS; GGPPS1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_004837.3  
 AGTGTGACCGGGATGGCGCATTTTCTTGACCACTAATGCGGTGTCGCTGGCGGCTGAG  
 GAGGGCGGAGAGTTCTGTGGTGAATAGTGGGAAGGATTTCATGTAGGCATCGGGAAGAGC  
 CTAAGTCCACATTATAAAATAGGAAGTTGATGCGGGGTACAGTTACTCCCGGACCGGCGG  
 CGTGAAAGTCGTGATATCATCGTTGAACTATTAGCTTTGAAGTTTAAATCCAATGGAGAA  
 GACTCAAGAAACAGTCCAAGAATTCTTCTAGAACCCTATAAATACTTACTTCAGTTACC  
 AGGTAAACAAGTGAACCAAACCTTTCACAGGCATTTAATCATTGGCTGAAAGTCCAGA  
 GGACAAGTACAGATTATTATTGAAGTGACAGAAATGTTGCATAATGCCAGTTTACTCAT  
 CGATGATATTGAAGACAACCTAAAACCTCCGACGTGGCTTCCAGTGGCCACAGCATCTA  
 TGGAATCCCATCTGTCATCAATTCTGCCAATTACGTGATTTTCTTGGCTGGAGAAAGT  
 CTTAACCTTGATCACCCAGATGCAGTGAAGCTTTTTACCGCCAGCTTTTGGAACTCCA  
 TCAGGGACAAGGCTAGATATTTACTGGAGGGATAATTACACTTGTCCCACTGAAGAAGA  
 ATATAAGCTATGGTGTGCAGAAAACAGTGGACTGTTTGGATTAGCAGTAGGTCTCAT  
 GCAGTTGTTCTCTGATTACAAAGAAGATTTAAAACCGCTACTTAATACACTTGGGCTCTT  
 TTTCCAAATTAGGGATGATTATGCTAATCTACACTCCAAGAATATAGTGAAAACAAAAG  
 TTTTGTGAAGATCTGACAGAGGGAAAGTTCTCATTTCTACTATTTCATGCTATTTGGTC  
 AAGGCCTGAAAGCACCCAGGTGCAGAATATCTTGCAGAGAGAACAGAAAACATAGATAT  
 AAAAAAATACTGTGTACATTATCTTGGAGATGTAGGTTCTTTTGAATACACTCGTAATAC  
 CCTTAAAGAGCTTGAAGCTAAAGCCTATAAACAGATTGATGCACGTGGTGGGAACCCTGA  
 GCTAGTAGCCTTAGTAAAACACTTAAGTAAGATGTTCAAAGAAGAAAATGAATAATGTTA  
 AGCCATTTCTGATTGGACCTCATAGCTTATTTTAGTTAATCTTTTTTTGTCTTTTAGCC  
 TTACCACCTTTTAAAAAATTTGTTATTCTCCAGAAACAGTAAATAGGTGAGTAGGGGTGG  
 TGCAAGTGAATTCGTTTTTCAATTTAGAAGCCCTCTGTACAGATAATCAAATTCAAAGTT  
 GAAAGAATCAAAGCAGCCACAGTTATGTAGGTCTGATTTGAATGCATAATTGCAGTGA  
 CAGGACATTGCCCAACTCTATCTACTACCATCAATGTTGTGTTTATCCGTCAATAA  
 AAAAGACTTGCTCCAGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



[View online »](#)

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004837
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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>	<a href="#">NM_004837.3</a> , <a href="#">NP_004828.1</a>
<b>RefSeq Size:</b>	2921 bp
<b>RefSeq ORF:</b>	903 bp
<b>Locus ID:</b>	9453
<b>Cytogenetics:</b>	1q42.3
<b>Domains:</b>	polyprenyl_synt
<b>Protein Pathways:</b>	Metabolic pathways, Terpenoid backbone biosynthesis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 both encode the same protein.</p>