

## Recombinant Human GGPS1 293 Cell Lysate

**Cat. No.** GGPS1-5946HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for geranylgeranyl diphosphate synthase 1 (GGPS1), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** [GGPS1 geranylgeranyl diphosphate synthase 1 \[ Homo sapiens \]](#)

**Official Symbol** [GGPS1](#)

**Synonyms** [GGPS1](#); geranylgeranyl diphosphate synthase 1; geranylgeranyl pyrophosphate synthase; GGPPS1; GGPPSase; GGPP synthase; geranyltranstransferase; farnesyltranstransferase; dimethylallyltranstransferase; farnesyl diphosphate synthase; (2E,6E)-farnesyl diphosphate synthase; GGPPS;

**Gene ID** [9453](#)

**mRNA Refseq** [NM\\_004837](#)

**Protein Refseq** [NP\\_004828](#)

**MIM** [606982](#)

**UniProt ID** [O95749](#)

**Chromosome Location** [1q43](#)

**Pathway** [Cholesterol biosynthesis, organism-specific biosystem](#); [Metabolic pathways, organism-specific biosystem](#); [Metabolism, organism-specific biosystem](#); [Metabolism of lipids and lipoproteins, organism-specific biosystem](#); [Terpenoid backbone biosynthesis, organism-specific biosystem](#); [Terpenoid backbone biosynthesis, conserved biosystem](#); [geranylgeranyldiphosphate biosynthesis, organism-specific](#)

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biosystem;

**Function**

dimethylallyltranstransferase activity; farnesyltranstransferase activity;  
geranyltranstransferase activity; metal ion binding; transferase activity;

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