

## Recombinant Human GGPS1, GST-tagged

**Cat. No.** GGPS1-13243H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GGPS1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                         |
| <b>Species</b>          | Human                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-300a.a.                                                                                                                                                         |
| <b>Description</b>      | Guanylate-binding proteins, such as GBP6, are induced by interferon and hydrolyze GTP to both GDP and GMP (Olszewski et al., 2006 [PubMed 16689661]).             |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                         |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol. |

### GENE INFORMATION

|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| <b>Gene Name</b>       | GGPS1 geranylgeranyl diphosphate synthase 1 [ Homo sapiens ]               |
| <b>Official Symbol</b> | GGPS1                                                                      |
| <b>Synonyms</b>        | GGPS1; geranylgeranyl diphosphate synthase 1; geranylgeranyl pyrophosphate |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | synthase; GGPPS1; GGPPSase; GGPP synthase; geranyltranstransferase; farnesyltranstransferase; dimethylallyltranstransferase; farnesyl diphosphate synthase; (2E,6E)-farnesyl diphosphate synthase; GGPPS;                                                                                                                                                                                                     |
| <b>Gene ID</b>             | 9453                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_001037277                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_001032354                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 606982                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | O95749                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 1q43                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | 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 biosystem; |
| <b>Function</b>            | dimethylallyltranstransferase activity; farnesyltranstransferase activity; geranyltranstransferase activity; metal ion binding; transferase activity;                                                                                                                                                                                                                                                         |