



# Recombinant Protein Technical Manual

## Recombinant Human GGPS1 Protein (His Tag)

RPES4865

### Product Data:

**Product SKU:** RPES4865

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** O95749

### Protein Information:

**Molecular Mass:** 37.0 kDa

**AP Molecular Mass:** 35 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 20% Glycerol, pH 8.0 .

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Geranylgeranyl Pyrophosphate Synthase; GGPP Synthase; GGPPSase; (2E;6E)-Farnesyl Diphosphate Synthase; Dimethylallyltranstransferase; Farnesyl Diphosphate Synthase; Farnesyltranstransferase; Geranylgeranyl Diphosphate Synthase; Geranyltranstransferase; GGPS1

## Immunogen Information:

**Sequence:** Met 1-Glu300

## Background:

Geranylgeranyl pyrophosphate synthase (GGPS1) is a member of the FPP/GGPP synthase family. GGPS1 is highly expressed in testis, heart and skeletal muscle. GGPS1 is localized in the cytoplasm and has geranylgeranyl diphosphate (GGPP) synthase activity. It catalyzes the trans-addition of the three molecules of IPP onto DMAPP to form geranylgeranyl pyrophosphate, an important precursor of carotenoids and geranylated proteins. Other transcriptional splice variants have been found.