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# Product datasheet for PH302699

## GGPS1 (NM_004837) Human Mass Spec Standard

### Product data:

| | |
|---|---|
| **Product Type:** | Mass Spec Standards |
| **Description:** | GGPS1 MS Standard C13 and N15-labeled recombinant protein (NP_004828) |
| **Species:** | Human |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | RC202699 |
| **Predicted MW:** | 34.9 kDa |
| **Protein Sequence:** | >RC202699 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MEKTQETVQRILLEPYKYLLQLPGKQVRTKLSQAFNHWLKVPEDKLQIIIEVTEMLHNASLLIDDIEDNS<br>KLRRGFPVAHSIYGIPSVINSANYVYFLGLEKVLTLDHPDAVKLFTRQLLELHQGQGLDIYWRDNYTCPT<br>EEEYKAMVLQKTGGLFGLAVGLMQLFSDYKEDLKPLLNTLGLFFQIRDDYANLHSKEYSENKSFCEDLTE<br>GKFSFPTIHAIWSRPESTQVQNILRQRTENIDIKKYCVHYLEDVGSFEYTRNTLKELEAKAYKQIDARGG<br>NPELVALVKHLSKMFKEENE<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Labeling Method:** | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| **Storage:** | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| **Stability:** | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| **RefSeq:** | NP_004828 |
| **RefSeq Size:** | 2921 |
| **RefSeq ORF:** | 900 |
| **Synonyms:** | GGPPS; GGPPS1 |
| **Locus ID:** | 9453 |

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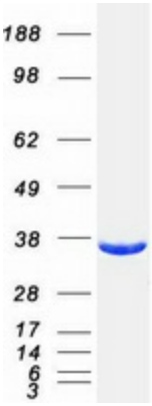
**UniProt ID:** O95749

**Cytogenetics:** 1q42.3

**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]

**Protein Pathways:** Metabolic pathways, Terpenoid backbone biosynthesis

## Product images:




Coomassie blue staining of purified GGPS1 protein (Cat# [TP302699]). The protein was produced from HEK293T cells transfected with GGPS1 cDNA clone (Cat# [RC202699]) using MegaTran 2.0 (Cat# [TT210002]).