

## Recombinant Human GMPPA 293 Cell Lysate

**Cat. No.** GMPPA-5879HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for GDP-mannose pyrophosphorylase A (GMPPA), transcript variant 2 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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

## GENE INFORMATION

<b>Gene Name</b>	GMPPA GDP-mannose pyrophosphorylase A [ Homo sapiens ]
<b>Official Symbol</b>	GMPPA
<b>Synonyms</b>	GMPPA; GDP-mannose pyrophosphorylase A; mannose-1-phosphate guanylyltransferase alpha; mannose-1-phosphate guanylyltransferase (GDP); GTP-mannose-1-phosphate guanylyltransferase alpha;
<b>Gene ID</b>	<a href="#">29926</a>
<b>mRNA Refseq</b>	<a href="#">NM_013335</a>
<b>Protein Refseq</b>	<a href="#">NP_037467</a>
<b>UniProt ID</b>	<a href="#">Q96IJ6</a>
<b>Chromosome Location</b>	2q36.1
<b>Pathway</b>	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Asparagine N-linked glycosylation, organism-specific biosystem; Biosynthesis of the N-glycan precursor (dolichol lipid-linked oligosaccharide, LLO) and transfer to a nascent protein, organism-specific biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; GDP-mannose biosynthesis, organism-specific biosystem;

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**Function**

GTP binding; mannose-1-phosphate guanylyltransferase activity; nucleotide binding; nucleotidyltransferase activity; transferase activity;

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