

# Recombinant Human GNPTG Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GNPTG-5153H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	GNPTG MS Standard C13 and N15-labeled recombinant protein (NP_115909) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This gene encodes the gamma subunit of the N-acetylglucosamine-1-phosphotransferase complex. This hexameric complex, composed of alpha, beta and gamma subunits, catalyzes the first step in synthesis of a mannose 6-phosphate lysosomal recognition marker. This enzyme complex is necessary for targeting of lysosomal hydrolases to the lysosome. Mutations in the gene encoding the gamma subunit have been associated with mucopolipidosis IIIC, also known as mucopolipidosis III gamma.
<b>Molecular Mass</b>	33.8 kDa
<b>AA Sequence</b>	MAAGLARLLLLLGLSAGGPAPAGAAKMKVVEEPNAFGVNNPFLPQASRLQAKRDPS PVSGPVHLFRLSGKCFSLVESTYKYEFCPFHNVTQHEQTFRWNAYSIGILGIWHEWEI ANNTFTGMWMRDGDACRSRSRQSKVELACGKSNRLAHVSEPSTCVYALTFETPLV CHPHALLVYPTLPEALQRQWDQVEQDLADELITPQGHEKLLRRLFEDAGYLKTPENE PTQLEGGPDSLGFETLENCRKAHKELSKEIKRLKGLLTQHGIPTRPTETSINLEHLGH ETPRAKSPEQLRGDPGLRGSLSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	GNPTG N-acetylglucosamine-1-phosphate transferase subunit gamma [ Homo sapiens (human) ]
<b>Official Symbol</b>	GNPTG
<b>Synonyms</b>	GNPTG; N-acetylglucosamine-1-phosphate transferase, gamma subunit; C16orf27, chromosome 16 open reading frame 27, GNPTAG, N acetylglucosamine 1 phosphotransferase, gamma subunit; N-acetylglucosamine-1-phosphotransferase subunit gamma; c316G12.3; CAB56184; GlcNAc phosphotransferase gamma subunit; glcNAc-1-phosphotransferase subunit gamma; UDP-N-acetylglucosamine-1-phosphotransferase subunit gamma; RJD9; GNPTAG; LP2537; C16orf27;
<b>Gene ID</b>	84572
<b>mRNA Refseq</b>	NM_032520
<b>Protein Refseq</b>	NP_115909
<b>MIM</b>	607838

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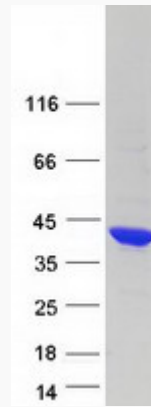
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UniProt ID

Q9UJJ9

SDS-PAGE



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