

## Product datasheet for PH304458

### GNS (NM\_002076) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GNS MS Standard C13 and N15-labeled recombinant protein (NP_002067)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204458
Predicted MW:	62.1 kDa
Protein Sequence:	>RC204458 protein sequence Red=Cloning site Green=Tags(s)

MRLPLAPGRLLRRGSPRHLPCSPALLLLVLLGGCLGVFGVAAAGTRRPNVVLLLTDDQDEVLGGMTPLKKT  
KALIGEMGMTFSSAYVPSALCCPSRASILTGKYPHNHVNNNTLEGNCSSKSWQKIQEPNTFPAILRSMC  
GYQTFAGKYLNEYGAPDAGGLEHVPLGWSYWYALEKNSKYNYTL SINGKARKHGENYSVDYLDVLAN  
VSLDFLDYKSNFEPFFMMIATPAPHSPWTAAPQYQKAFQNVFAPRNKNFNHGTNKHVLIHQAKTPMTNS  
SIQFLDNAFRKRWQTLVSDDLVEKLVKRLFTGELNNTYIFYTSDNGYHTGQFSLPIDKRQLYEFDIKV  
PLLVRGPGIKPNQTSKMLVANIDLGPTILDIAGYDLNKTQMDGMSLLPILRGASNL TWRSDVLEVEYQGE  
RNVTDPTCPSLSPGVSQCFPDCVCEDAYNNTYACVRTMSALWNLQYCEFDDQEVFVEVYNLTADPDQITN  
IAKTIDPELLGKMNRYRLMMLQSCSGPTCRTPGVFDPGYRFDPRMLF SNRGSVRTRRRFSKHL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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:	<u>NP_002067</u>
RefSeq Size:	5144
RefSeq ORF:	1656



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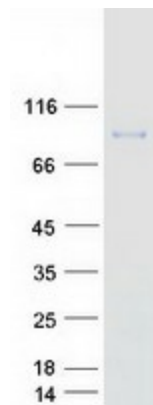
**Synonyms:** G6S  
**Locus ID:** 2799  
**UniProt ID:** [P15586](#), [A0A024RBC5](#), [Q7Z3X3](#)  
**Cytogenetics:** 12q14.3

**Summary:** The product of this gene is a lysosomal enzyme found in all cells. It is involved in the catabolism of heparin, heparan sulphate, and keratan sulphate. Deficiency of this enzyme results in the accumulation of undegraded substrate and the lysosomal storage disorder mucopolysaccharidosis type IIID (Sanfilippo D syndrome). Mucopolysaccharidosis type IIID is the least common of the four subtypes of Sanfilippo syndrome. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Glycosaminoglycan degradation, Lysosome, Metabolic pathways

### Product images:



Coomassie blue staining of purified GNS protein (Cat# [TP304458]). The protein was produced from HEK293T cells transfected with GNS cDNA clone (Cat# [RC204458]) using MegaTran 2.0 (Cat# [TT210002]).