

## Product datasheet for PH318899

### alpha Glucosidase II (GANAB) (NM\_198334) Human Mass Spec Standard

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Mass Spec Standards   |
| Description:                          | GANAB MS Standard C13 and N15-labeled recombinant protein (NP_938148) |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | RC218899  |
| Predicted MW:                         | 106.7 kDa   |
| Protein Sequence:                     | >RC218899 representing NM_198334<br>Red=Cloning site Green=Tags(s)    |

MAVAAVAARRRRSWASLVLAFLGVCLGITLAVDRSNFKTCEESSFCKRQRSIRPGLSPYRALLDSLQLG  
PDSLTVHLIHEVTKVLLVLELQGLQKNMTRFRIDELEPRRPRYRVPDVLVADPPIARLSVSGRDENSVEL  
TMAEGPYKIIILTARFRLDLEDRSLLLSVNARGLLEFEHQRAPRVSQGSKDPAEGDGAQPEETPRDGDK  
PEETQGGKAEKDEPGAWEEFKTHSDSKPYGPMVGLDFSLPGMEHVYGIPEHADNLRKLVTEGGEYRLY  
NLDVQYELYNPMALYGSVPVLLAHNPHRDLGIFWLNAETWVDISSNTAGKTLFGKMDYLGSGETPQ  
TDVRWMSSETGIIDVFLLLGPSISDVFRQYASLTGTQALPPLFSLGYHQSRWNYRDEADVLEVDQGFDDHN  
LPCDVIWLDIEHADGKRYFTWDPSPFPQPRMLERLASKRRKLVAVDPHIKVDVSGYRVHEELRNLGLYV  
KTRDGSYEGWCWPGSAGYPDFTNPTMRAWWANMF SYDNYEGSAPNLFVWVNDMNEPSVFNPEVTMLKDA  
QHYGGWEHRDVHNIYGLYVHMATADGLRQRSGGMERPFVLAFAFFAGSQRFGAVWTGDNTAEWDHLKISI  
PMCLSLGLVGLSFCGADVGGFFKNPEPELLVRWYQMGAYQPFRAHAHLDTGRREPWLLPSQHNDIIRDA  
LGQRYSLLPFWYLLYQAHREGIPVMRPLWVYQPDVTTFNIDDDQYLLGDALLVHPVSDSAGHGVQVYLP  
GQGEVWYDIQSYQKHGHPQTL YLPVTLSSIPVFQRRGTIVPRWVRVRSSECMKDDPITL FVALSPQGT  
QGELFLDDGHTFNYQTRQEFLLRRFSFSGNTLVSSADPEGHFETPIWIERVVIIGAGKPAAVLQTKGS  
PESRSLFQHPETSVLVLRKPGINVASDWSIHLR

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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.   |



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RefSeq: [NP\\_938148](#)

RefSeq Size: 3887

RefSeq ORF: 2832

Synonyms: G2AN; GIIA; GLUII; PKD3

Locus ID: 23193

UniProt ID: [Q14697](#), [V9HWJ0](#)

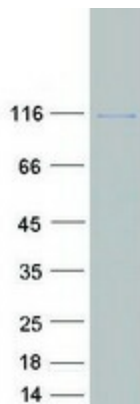
Cytogenetics: 11q12.3

**Summary:** This gene encodes the alpha subunit of glucosidase II and a member of the glycosyl hydrolase 31 family of proteins. The heterodimeric enzyme glucosidase II plays a role in protein folding and quality control by cleaving glucose residues from immature glycoproteins in the endoplasmic reticulum. Expression of the encoded protein is elevated in lung tumor tissue and in response to UV irradiation. Mutations in this gene cause autosomal-dominant polycystic kidney and liver disease. [provided by RefSeq, Jul 2016]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Metabolic pathways, N-Glycan biosynthesis

### Product images:



Coomassie blue staining of purified GANAB protein (Cat# [TP318899]). The protein was produced from HEK293T cells transfected with GANAB cDNA clone (Cat# [RC218899]) using MegaTran 2.0 (Cat# [TT210002]).