

## Product datasheet for PH301614

### GBA (NM\_001005741) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GBA MS Standard C13 and N15-labeled recombinant protein (NP_001005741)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201614
Predicted MW:	59.7 kDa
Protein Sequence:	>RC201614 protein sequence Red=Cloning site Green=Tags(s)

MEFSSPSREECPKPLSRVSIAGSLTGLLLLQAVSWASGARPCIPKSFYSSVVCNATYCDSFDPPPTF  
PALGTFSTRYESTRSGRMELSMGPIQANHTGTGLLLTLQPEQKFQYKGFGGAMTDAAALNILALSPPAQ  
NLLLKSYFSEEGIGYNIIRVPMASCDIFSIRTYADTPDDFQLHNSLPEEDTKLKIPLIHRALQLAQRP  
VSLASPWTSPTWLKTNGAVNGKSLKQPGDIYHQTWARYFVKFLDAYAEHKLQFWAVTAENEPSAGLL  
SGYPFQCLGFTPEHQRFIARDLGPTLANSTHHNVRLMLDDQRLLLPHWAKVVLTDPEAAKYVHGIAVH  
WYLDLAPAKATLGETHRLFNTMLFASEACVGSKFWEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDW  
NLALNPEGPNWVRNFVDSPIIVDITKDTFYKQPMFYHLGHFSKFIPESQVRVGLVASQKNDLDAVALMH  
PDGSAVVVVLNRSKDVPLTIKDPAVGFLETISPGYSIHTYLWRRQ

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- <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.
RefSeq:	<a href="#">NP_001005741</a>
RefSeq Size:	2583
RefSeq ORF:	1608



[View online »](#)

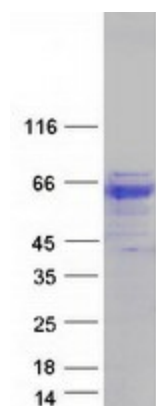
**Synonyms:** GBA1; GCB; GLUC  
**Locus ID:** 2629  
**UniProt ID:** [P04062](#), [B7Z6S9](#), [A0A068F658](#)  
**Cytogenetics:** 1q22

**Summary:** This gene encodes a lysosomal membrane protein that cleaves the beta-glucosidic linkage of glycosylceramide, an intermediate in glycolipid metabolism. Mutations in this gene cause Gaucher disease, a lysosomal storage disease characterized by an accumulation of glucocerebrosides. A related pseudogene is approximately 12 kb downstream of this gene on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]

**Protein Families:** Druggable Genome

**Protein Pathways:** Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism

### Product images:



Coomassie blue staining of purified GBA protein (Cat# [TP301614]). The protein was produced from HEK293T cells transfected with GBA cDNA clone (Cat# [RC201614]) using MegaTran 2.0 (Cat# [TT210002]).