

# **Product datasheet for PH304152**

# GBE1 (NM\_000158) Human Mass Spec Standard

### **Product data:**

#### OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

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Product Type:	Mass Spec Standards	
Description:	GBE1 MS Standard C13 and N15-labeled recombinant protein (NP_000149)	
Species:	Human	
Expression Host:	HEK293	
Expression cDNA Clone or AA Sequence:	RC204152	
Predicted MW:	80.4 kDa	
Protein Sequence:	<pre>&gt;RC204152 protein sequence Red=Cloning site Green=Tags(s)</pre>	
	MAAPMTPAARPEDYEAALNAALADVPELARLLEIDPYLKPYAVDFQRRYKQFSQILKNIGENEGGIDKFS RGYESFGVHRCADGGLYCKEWAPGAEGVFLTGDFNGWNPFSYPYKKLDYGKWELYIPPKQNKSVLVPHGS KLKVVITSKSGEILYRISPWAKYVVREGDNVNYDWIHWDPEHSYEFKHSRPKKPRSLRIYESHVGISSHE GKVASYKHFTCNVLPRIKGLGYNCIQLMAIMEHAYYASFGYQITSFFAASSRYGSPEELQELVDTAHSMG IIVLLDVVHSHASKNSADGLNMFDGTDSCYFHSGPRGTHDLWDSRLFAYSSWEVLRFLLSNIRWWLEEYR FDGFRFDGVTSMLYHHHGVGQGFSGDYSEYFGLQVDEDALTYLMLANHLVHTLCPDSITIAEDVSGMPAL CSPISQGGGGFDYRLAMAIPDKWIQLLKEFKDEDWNMGDIVYTLTNRRYLEKCIAYAESHDQALVGDKSL AFWLMDAEMYTNMSVLTPFTPVIDRGIQLHKMIRLITHGLGGEGYLNFMGNEFGHPEWLDFPRKGNNESY HYARRQFHLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAPQAYVSEKHEGNKIIAFERAGLLFIFNFHPS KSYTDYRVGTALPGKFKIVLDSDAAEYGGHQRLDHSTDFFSEAFEHNGRPYSLLVYIPSRVALILQNVDL PN	
	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- 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 000149</u>	



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	E1 (NM_000158) Human Mass Spec Standard – PH304152	
RefSeq Size:	3118	
RefSeq ORF:	2106	
Synonyms:	APBD; GBE; GSD4	
Locus ID:	2632	
UniProt ID:	<u>Q04446</u> , <u>Q59ET0</u>	
Cytogenetics:	3p12.2	
Summary:	The protein encoded by this gene is a glycogen branching enzyme that catalyzes the transfer of alpha-1,4-linked glucosyl units from the outer end of a glycogen chain to an alpha-1,6 position on the same or a neighboring glycogen chain. Branching of the chains is essential to increase the solubility of the glycogen molecule and, consequently, in reducing the osmotic pressure within cells. Highest level of this enzyme are found in liver and muscle. Mutations in this gene are associated with glycogen storage disease IV (also known as Andersen's disease). [provided by RefSeq, Jul 2008]	
Protein Families:	Druggable Genome	
Protein Pathway	Metabolic pathways, Starch and sucrose metabolism	

# **Product images:**

188	_	
98	-	
62	_	-
49	-	
38	—	
28	_	
17	_	
14	_	
63	=	

Coomassie blue staining of purified GBE1 protein (Cat# [TP304152]). The protein was produced from HEK293T cells transfected with GBE1 cDNA clone (Cat# [RC204152]) using MegaTran 2.0 (Cat# [TT210002]).

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