

## Product datasheet for TP315796L

### OriGene Technologies, Inc.

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## **GAA (NM 000152) Human Recombinant Protein**

#### **Product data:**

**Product Type: Recombinant Proteins** 

**Description:** Recombinant protein of human glucosidase, alpha; acid (GAA), transcript variant 1, 1 mg

Species: Human HEK293T **Expression Host:** 

**Expression cDNA** >RC215796 representing NM 000152 Clone or AA Red=Cloning site Green=Tags(s)

Sequence:

MGVRHPPCSHRLLAVCALVSLATAALLGHILLHDFLLVPRELSGSSPVLEETHPAHQQGASRPGPRDAQA HPGRPRAVPTQCDVPPNSRFDCAPDKAITQEQCEARGCCYIPAKQGLQGAQMGQPWCFFPPSYPSYKLEN LSSSEMGYTATLTRTTPTFFPKDILTLRLDVMMETENRLHFTIKDPANRRYEVPLETPHVHSRAPSPLYS VEFSEEPFGVIVRRQLDGRVLLNTTVAPLFFADQFLQLSTSLPSQYITGLAEHLSPLMLSTSWTRITLWN RDLAPTPGANLYGSHPFYLALEDGGSAHGVFLLNSNAMDVVLQPSPALSWRSTGGILDVYIFLGPEPKSV VQQYLDVVGYPFMPPYWGLGFHLCRWGYSSTAITRQVVENMTRAHFPLDVQWNDLDYMDSRRDFTFNKDG FRDFPAMVQELHQGGRRYMMIVDPAISSSGPAGSYRPYDEGLRRGVFITNETGQPLIGKVWPGSTAFPDF TNPTALAWWEDMVAEFHDQVPFDGMWIDMNEPSNFIRGSEDGCPNNELENPPYVPGVVGGTLQAATICAS SHQFLSTHYNLHNLYGLTEAIASHRALVKARGTRPFVISRSTFAGHGRYAGHWTGDVWSSWEQLASSVPE ILQFNLLGVPLVGADVCGFLGNTSEELCVRWTQLGAFYPFMRNHNSLLSLPQEPYSFSEPAQQAMRKALT LRYALLPHLYTLFHQAHVAGETVARPLFLEFPKDSSTWTVDHQLLWGEALLITPVLQAGKAEVTGYFPLG TWYDLQTVPVEALGSLPPPPAAPREPAIHSEGQWVTLPAPLDTINVHLRAGYIIPLQGPGLTTTESRQQP MALAVALTKGGEARGELFWDDGESLEVLERGAYTQVIFLARNNTIVNELVRVTSEGAGLQLQKVTVLGVA

TAPQQVLSNGVPVSNFTYSPDTKVLDICVSLLMGEQFLVSWC

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK Predicted MW: 102.5 kDa

>0.05 µg/µL as determined by microplate BCA method **Concentration:** 

> 80% as determined by SDS-PAGE and Coomassie blue staining **Purity:** 

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.





#### GAA (NM\_000152) Human Recombinant Protein - TP315796L

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling

conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** NP 000143

**Locus ID:** 2548

UniProt ID: P10253

RefSeq Size: 3846

Cytogenetics: 17q25.3 RefSeq ORF: 2856

Synonyms: LYAG

**Summary:** This gene encodes lysosomal alpha-glucosidase, which is essential for the degradation of

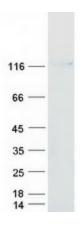
glycogen to glucose in lysosomes. The encoded preproprotein is proteolytically processed to generate multiple intermediate forms and the mature form of the enzyme. Defects in this gene are the cause of glycogen storage disease II, also known as Pompe's disease, which is an autosomal recessive disorder with a broad clinical spectrum. Alternative splicing results in

multiple transcript variants. [provided by RefSeq, Jan 2016]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Galactose metabolism, Lysosome, Metabolic pathways, Starch and sucrose metabolism

# **Product images:**



Coomassie blue staining of purified GAA protein (Cat# [TP315796]). The protein was produced from HEK293T cells transfected with GAA cDNA clone (Cat# [RC215796]) using MegaTran 2.0 (Cat# [TT210002]).