

Specifications:

Gene:	mGaa
Accession:	NP_032090
Insert size:	2874bp
Concentration:	10µg at 0.2µg/µL

**mLYAG/GAA cDNA
Plasmid**

Gaa glucosidase, alpha, acid
[*Mus musculus* (house mouse)]

Also known as: E430018M07Rik

Summary:

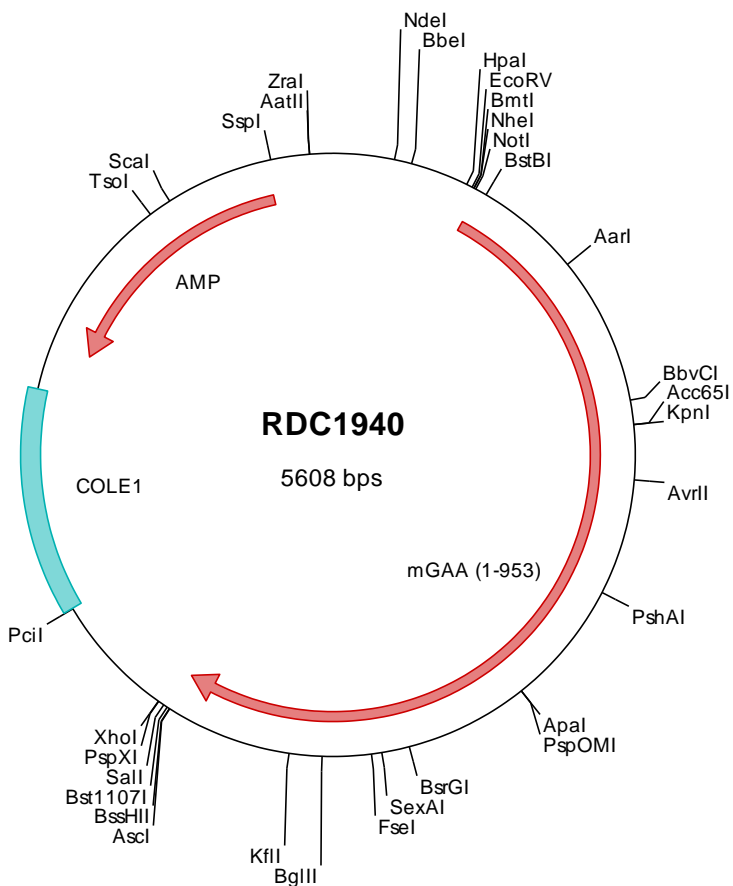
GAA is a lysosomal acid glucosidase that is involved in the degradation of glycogen. GAA undergoes proteolytic processing to generate a mature enzyme that cleaves alpha-1-4 and alpha-1-6 glycosidic bonds of glycogen, maltose and intermediate oligosaccharides within the lysosome. Mice lacking GAA exhibit symptoms similar to human Pompe syndrome such as accumulation of glycogen in cardiac and skeletal muscle lysosomes resulting in reduced mobility and strength. Alternatively spliced transcripts encoding different proteins have been described.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



> RDC1940 Plasmid DNA Sequence

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> RDC1940 Translated Insert Sequence

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