

Specifications:

Gene:	<i>cynoGAA</i>
Accession:	XP_005585247.1
Insert size:	2872bp
Concentration:	10µg at 0.2µg/µL

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

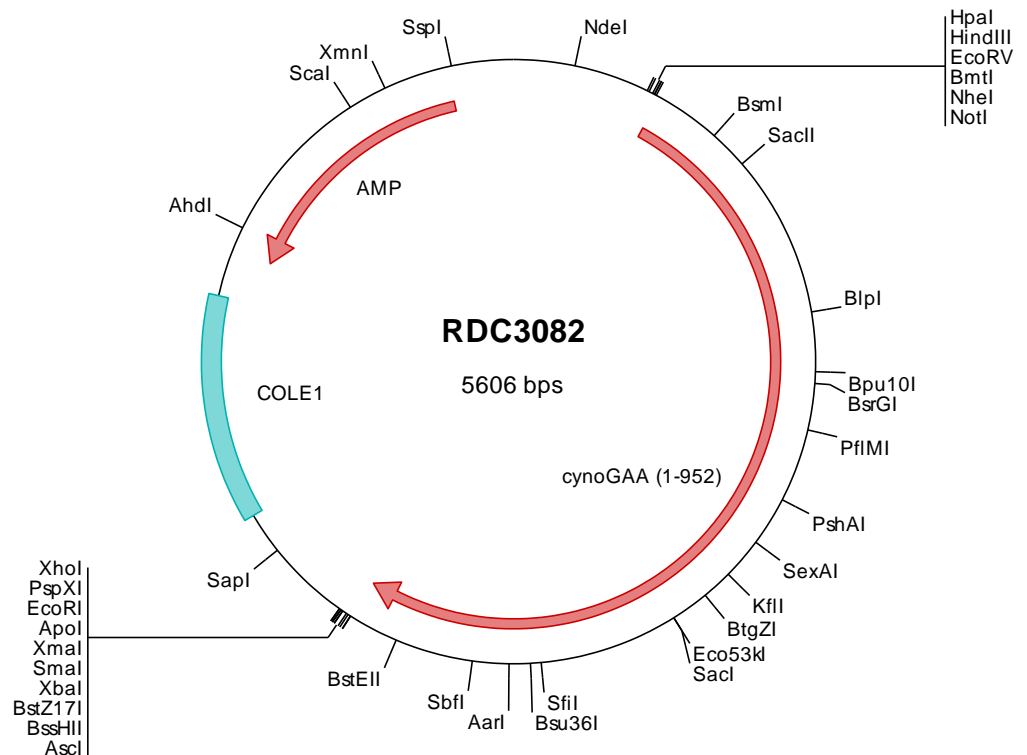
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

cynoLYAG/GAA cDNA Plasmid

GAA glucosidase alpha, acid
[*Macaca fascicularis* (crab-eating macaque)]

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.



> RDC3082 Plasmid DNA Sequence

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1 tcgctcggctt cgggtgatgac ggtgaaacc totgacacat gcagctccc gagacgggta cagcttgct gtaagcggat gccgggagca gacaagccc
101 tcaggggcgcg tcagcggggtg ttggcggggtg tcggggctgg cttactatg cgccatcaga gcagattgta ctgagagtg accatagcg gtgtgaaata
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> RDC3082 Translated Insert Sequence

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801 eqgwvtlppa ldtinvh1ra ghiiplqgpg ltttesrqpp malaval1tk geareglfwd dgeslevler gaytqvifla rsalvnmel1g hvtsegaglg
901 lqkvtvlgva tapqqvlng apvsnftysp dtkvldipvs llvgeqflis ws

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