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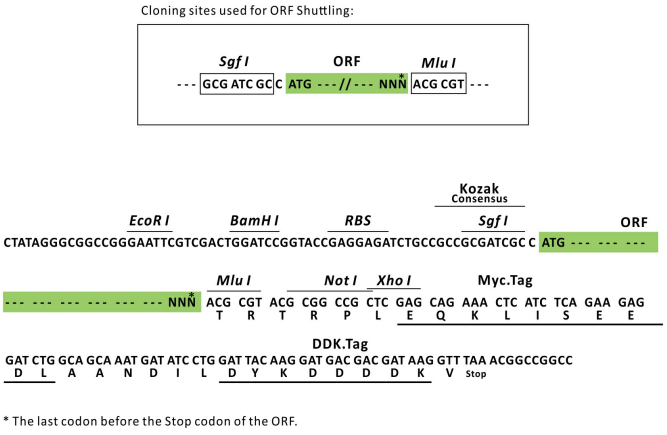
Product datasheet for RC215796L1

GAA (NM_000152) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAA (NM_000152) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	GAA
Synonyms:	LYAG
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215796).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

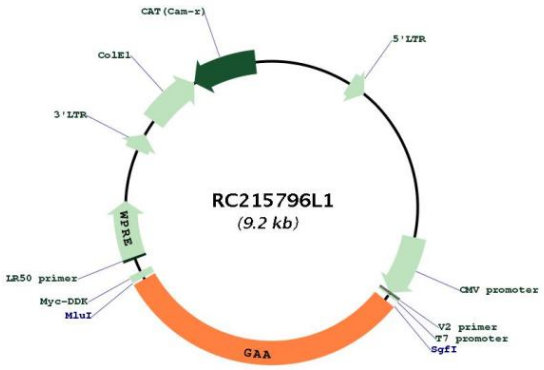


ACCN:	NM_000152
ORF Size:	2856 bp

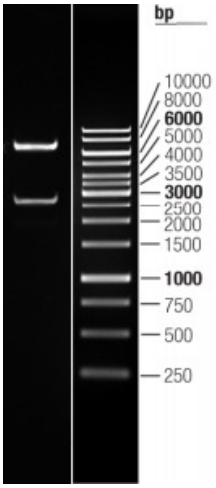
View online »

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_000152.2
RefSeq Size:	3846 bp
RefSeq ORF:	2859 bp
Locus ID:	2548
UniProt ID:	P10253
Cytogenetics:	17q25.3
Domains:	Glyco_hydro_31, PD
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Galactose metabolism, Lysosome, Metabolic pathways, Starch and sucrose metabolism
MW:	105.32 kDa
Gene 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]

Product images:



Circular map for RC215796L1



Double digestion of RC215796L1 using SgfI and MluI