

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC201304L2

Galactosidase alpha (GLA) (NM_000169) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galactosidase alpha (GLA) (NM_000169) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Galactosidase alpha
Synonyms:	GALA
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201304).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC C <mark>ATG // NNŇ</mark> ACG CGT



ACCN: ORF Size: NM_000169 1288 bp

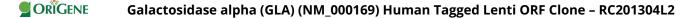


View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

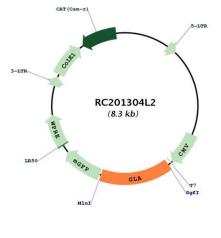
	Galactosidase alpha (GLA) (NM_000169) Human Tagged Lenti ORF Clone – RC201304L2
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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 Me	 thod: 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:	<u>NM 000169.2</u>
RefSeq Size:	1418 bp
RefSeq ORF:	1290 bp
Locus ID:	2717
UniProt ID:	<u>P06280</u>
Cytogenetics:	Xq22.1
Domains:	Melibiase
Protein Families:	Druggable Genome
Protein Pathways:	Galactose metabolism, Glycerolipid metabolism, Glycosphingolipid biosynthesis - globo series, Lysosome, Sphingolipid metabolism
MW:	48.8 kDa

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

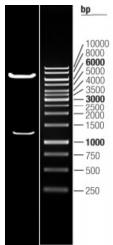


Gene Summary:This gene encodes a homodimeric glycoprotein that hydrolyses the terminal alpha-galactosyl
moieties from glycolipids and glycoproteins. This enzyme predominantly hydrolyzes ceramide
trihexoside, and it can catalyze the hydrolysis of melibiose into galactose and glucose. A
variety of mutations in this gene affect the synthesis, processing, and stability of this enzyme,
which causes Fabry disease, a rare lysosomal storage disorder that results from a failure to
catabolize alpha-D-galactosyl glycolipid moieties. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201304L2



Double digestion of RC201304L2 using Sgfl and Mlul

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US