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Product datasheet for RC201304L4V

Galactosidase alpha (GLA) (NM_000169) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Galactosidase alpha (GLA) (NM_000169) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Galactosidase alpha
Synonyms:	GALA
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000169
ORF Size:	1288 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC201304).`
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.
RefSeq:	NM_000169.2
RefSeq Size:	1418 bp
RefSeq ORF:	1290 bp
Locus ID:	2717
UniProt ID:	P06280
Cytogenetics:	Xq22.1
Domains:	Melibiase
Protein Families:	Druggable Genome

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Protein Pathways: Galactose metabolism, Glycerolipid metabolism, Glycosphingolipid biosynthesis - globo series, Lysosome, Sphingolipid metabolism

MW: 48.8 kDa

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]