

Product datasheet for **RC211375L4V**

Glycogen synthase 2 (GYS2) (NM_021957) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Glycogen synthase 2 (GYS2) (NM_021957) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Glycogen synthase 2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_021957
ORF Size:	2109 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211375).
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_021957.2 , NP_068776.1
RefSeq Size:	3132 bp
RefSeq ORF:	2112 bp
Locus ID:	2998
UniProt ID:	P54840
Cytogenetics:	12p12.1
Protein Pathways:	Insulin signaling pathway, Starch and sucrose metabolism
MW:	81 kDa



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Gene Summary:

The protein encoded by this gene, liver glycogen synthase, catalyzes the rate-limiting step in the synthesis of glycogen - the transfer of a glucose molecule from UDP-glucose to a terminal branch of the glycogen molecule. Mutations in this gene cause glycogen storage disease type 0 (GSD-0) - a rare type of early childhood fasting hypoglycemia with decreased liver glycogen content. [provided by RefSeq, Dec 2009]