

## Product datasheet for **RC204152L4V**

### GBE1 (NM\_000158) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	GBE1 (NM_000158) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GBE1
Synonyms:	APBD; GBE; GSD4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000158
ORF Size:	2106 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204152).
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. <a href="#">More info</a>
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:	<a href="#">NM_000158.2</a>
RefSeq Size:	3118 bp
RefSeq ORF:	2109 bp
Locus ID:	2632
UniProt ID:	<a href="#">Q04446</a>
Cytogenetics:	3p12.2
Domains:	isoamylase_N, alpha-amylase, Amy
Protein Families:	Druggable Genome



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**Protein Pathways:** Metabolic pathways, Starch and sucrose metabolism

**MW:** 80.4 kDa

**Gene Summary:** The protein encoded by this gene is a glycogen branching enzyme that catalyzes the transfer of alpha-1,4-linked glucosyl units from the outer end of a glycogen chain to an alpha-1,6 position on the same or a neighboring glycogen chain. Branching of the chains is essential to increase the solubility of the glycogen molecule and, consequently, in reducing the osmotic pressure within cells. Highest level of this enzyme are found in liver and muscle. Mutations in this gene are associated with glycogen storage disease IV (also known as Andersen's disease). [provided by RefSeq, Jul 2008]