

## Product datasheet for **RC203084L2V**

### hemoglobin subunit gamma 1 (HBG1) (NM\_000559) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	hemoglobin subunit gamma 1 (HBG1) (NM_000559) Human Tagged ORF Clone Lentiviral Particle
Symbol:	hemoglobin subunit gamma 1
Synonyms:	HBG-T2; HBGA; HBGR; HSGGL1; PRO2979
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000559
ORF Size:	441 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203084).
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_000559.2</a>
RefSeq Size:	584 bp
RefSeq ORF:	444 bp
Locus ID:	3047
UniProt ID:	<a href="#">P69891</a>
Cytogenetics:	11p15.4
Domains:	globin



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**MW:** 16.1 kDa

**Gene Summary:** The gamma globin genes (HBG1 and HBG2) are normally expressed in the fetal liver, spleen and bone marrow. Two gamma chains together with two alpha chains constitute fetal hemoglobin (HbF) which is normally replaced by adult hemoglobin (HbA) at birth. In some beta-thalassemias and related conditions, gamma chain production continues into adulthood. The two types of gamma chains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is found in the A-gamma product (HBG1). The former is predominant at birth. The order of the genes in the beta-globin cluster is: 5'-epsilon -- gamma-G -- gamma-A -- delta -- beta--3'. [provided by RefSeq, Jul 2008]