

## Product datasheet for **RC215873L2V**

### **p107 (RBL1) (NM\_002895) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	p107 (RBL1) (NM_002895) Human Tagged ORF Clone Lentiviral Particle
Symbol:	RBL1
Synonyms:	CP107; p107; PRB1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002895
ORF Size:	3204 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215873).
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_002895.2</a>
RefSeq Size:	4270 bp
RefSeq ORF:	3207 bp
Locus ID:	5933
UniProt ID:	<a href="#">P28749</a>
Cytogenetics:	20q11.23
Domains:	RB_B, RB_A
Protein Families:	Druggable Genome, Transcription Factors



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**Protein Pathways:** Cell cycle, TGF-beta signaling pathway

**MW:** 120.7 kDa

**Gene Summary:** The protein encoded by this gene is similar in sequence and possibly function to the product of the retinoblastoma 1 (RB1) gene. The RB1 gene product is a tumor suppressor protein that appears to be involved in cell cycle regulation, as it is phosphorylated in the S to M phase transition and is dephosphorylated in the G1 phase of the cell cycle. Both the RB1 protein and the product of this gene can form a complex with adenovirus E1A protein and SV40 large T-antigen, with the SV40 large T-antigen binding only to the unphosphorylated form of each protein. In addition, both proteins can inhibit the transcription of cell cycle genes containing E2F binding sites in their promoters. Due to the sequence and biochemical similarities with the RB1 protein, it is thought that the protein encoded by this gene may also be a tumor suppressor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]