

## Product datasheet for **RR205740L4V**

### **Aplnr (NM\_031349) Rat Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Aplnr (NM_031349) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Aplnr
Synonyms:	Agtr1; Apj
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_031349
ORF Size:	1131 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR205740).
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_031349.2</a> , <a href="#">NP_112639.1</a>
RefSeq Size:	3670 bp
RefSeq ORF:	1134 bp
Locus ID:	83518
UniProt ID:	<a href="#">Q9JHG3</a>
Cytogenetics:	3q24



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**Gene Summary:**

Receptor for apelin receptor early endogenous ligand (APELA) and apelin (APLN) hormones coupled to G proteins that inhibit adenylate cyclase activity (PubMed:11359874). Plays a key role in early development such as gastrulation, blood vessels formation and heart morphogenesis by acting as a receptor for APELA hormone. May promote angioblast migration toward the embryonic midline, i.e. the position of the future vessel formation, during vasculogenesis. Promotes sinus venosus (SV)-derived endothelial cells migration into the developing heart to promote coronary blood vessel development. Plays also a role in various processes in adults such as regulation of blood vessel formation, blood pressure, heart contractility and heart failure (By similarity).[UniProtKB/Swiss-Prot Function]