

## Product datasheet for **MR210044L2V**

### Adgrg1 (NM\_018882) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

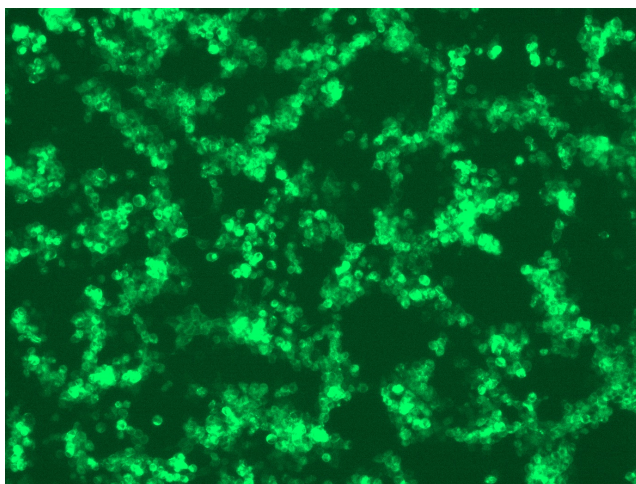
Product Type:	Lentiviral Particles
Product Name:	Adgrg1 (NM_018882) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Adgrg1
Synonyms:	Cyt28; Gpr56; TM7LN4; TM7XN1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_018882
ORF Size:	2064 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210044).
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_018882.2</a>
RefSeq Size:	3555 bp
RefSeq ORF:	2064 bp
Locus ID:	14766
UniProt ID:	<a href="#">Q8K209</a>
Cytogenetics:	8 47.12 cM



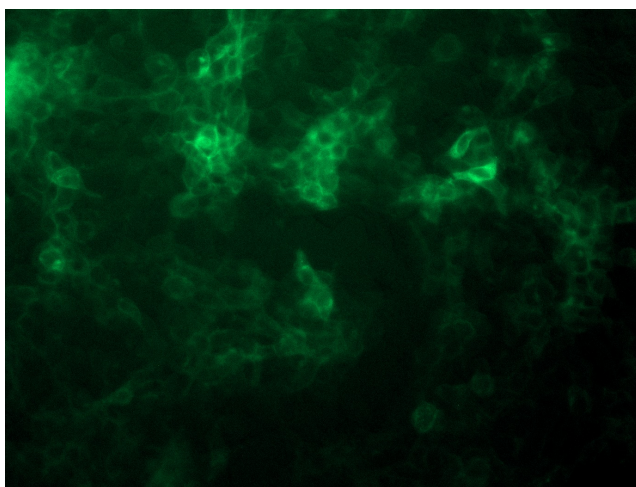
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**Gene Summary:**

Receptor involved in cell adhesion and probably in cell-cell interactions. Mediates cell matrix adhesion in developing neurons and hematopoietic stem cells. Receptor for collagen III/COL3A1 in the developing brain and involved in regulation of cortical development, specifically in maintenance of the pial basement membrane integrity and in cortical lamination (PubMed:21768377). Binding to the COL3A1 ligand inhibits neuronal migration and activates the RhoA pathway by coupling to GNA13 and possibly GNA12 (By similarity). Plays a role in the maintenance of hematopoietic stem cells and/or leukemia stem cells in bone marrow niche (PubMed:23478665). Plays a critical role in tumourigenesis (By similarity). Plays essential role in testis development (PubMed:20981830).[UniProtKB/Swiss-Prot Function]

**Product images:**

[MR210044L2] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with MR210044L2V particle to overexpress human Adgrg1-mGFP fusion protein.



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