

## Product datasheet for **RR208579L4V**

### Sema5a (NM\_001107659) Rat Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Sema5a (NM_001107659) Rat Tagged ORF Clone Lentiviral Particle
Symbol:	Sema5a
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001107659
ORF Size:	3222 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR208579).
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_001107659.2</a> , <a href="#">NP_001101129.1</a>
RefSeq Size:	10501 bp
RefSeq ORF:	3225 bp
Locus ID:	310207
UniProt ID:	<a href="#">D3ZTD8</a>
Cytogenetics:	2q22



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**Gene Summary:**

Bifunctional axonal guidance cue regulated by sulfated proteoglycans; attractive effects result from interactions with heparan sulfate proteoglycans (HSPGs), while the inhibitory effects depend on interactions with chondroitin sulfate proteoglycans (CSPGs). Ligand for receptor PLXNB3. In glioma cells, SEMA5A stimulation of PLXNB3 results in the disassembly of F-actin stress fibers, disruption of focal adhesions and cellular collapse as well as inhibition of cell migration and invasion through ARHGDI A-mediated inactivation of RAC1. May promote angiogenesis by increasing endothelial cell proliferation and migration and inhibiting apoptosis.[UniProtKB/Swiss-Prot Function]