

## Product datasheet for **RC210343L4V**

### SEMA4G (NM\_017893) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	SEMA4G (NM_017893) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SEMA4G
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_017893
ORF Size:	2529 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC210343).
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_017893.2</a>
RefSeq Size:	4415 bp
RefSeq ORF:	2532 bp
Locus ID:	57715
UniProt ID:	<a href="#">Q9NTN9</a>
Cytogenetics:	10q24.31
Protein Families:	Transmembrane
Protein Pathways:	Axon guidance
MW:	92 kDa



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**Gene Summary:**

Semaphorins are a large family of conserved secreted and membrane associated proteins which possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Based on sequence and structural similarities, semaphorins are put into eight classes: invertebrates contain classes 1 and 2, viruses have class V, and vertebrates contain classes 3-7. Semaphorins serve as axon guidance ligands via multimeric receptor complexes, some (if not all) containing plexin proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]