

## Product datasheet for **RC209657L4V**

### SEMA5B (NM\_001031702) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	SEMA5B (NM_001031702) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SEMA5B
Synonyms:	SEMAG; SemG
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001031702
ORF Size:	3453 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209657).
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_001031702.2</a> , <a href="#">NP_001026872.1</a>
RefSeq Size:	4737 bp
RefSeq ORF:	3456 bp
Locus ID:	54437
UniProt ID:	<a href="#">Q9P283</a>
Cytogenetics:	3q21.1
Protein Families:	Transmembrane
Protein Pathways:	Axon guidance



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**MW:** 125.7 kDa

**Gene Summary:** This gene encodes a member of the semaphorin protein family which regulates axon growth during development of the nervous system. The encoded protein has a characteristic Sema domain near the N-terminus, through which semaphorins bind to plexin, and five thrombospondin type 1 repeats in the C-terminal region of the protein. The protein product may be cleaved and exist as a secreted molecule (PMID: 19463192). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]