

## Product datasheet for **RC213681L4V**

### Semaphorin 3A (SEMA3A) (NM\_006080) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Semaphorin 3A (SEMA3A) (NM_006080) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Semaphorin 3A
Synonyms:	coll-1; COLL1; HH16; Hsema-I; Hsema-III; SEMA1; SEMAD; SEMAIII; SEMAL; SemD
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_006080
ORF Size:	2313 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC213681).
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_006080.1</a> , <a href="#">NP_006071.1</a>
RefSeq Size:	2530 bp
RefSeq ORF:	2316 bp
Locus ID:	10371
UniProt ID:	<a href="#">Q14563</a>
Cytogenetics:	7q21.11
Domains:	Sema, ig, IG, PSI
Protein Families:	Secreted Protein



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**Protein Pathways:** Axon guidance

**MW:** 88.89 kDa

**Gene Summary:** This gene is a member of the semaphorin family and encodes a protein with an Ig-like C2-type (immunoglobulin-like) domain, a PSI domain and a Sema domain. This secreted protein can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal pattern development. Increased expression of this protein is associated with schizophrenia and is seen in a variety of human tumor cell lines. Also, aberrant release of this protein is associated with the progression of Alzheimer's disease. [provided by RefSeq, Jul 2008]