

Product datasheet for RC213681L3

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Semaphorin 3A (SEMA3A) (NM_006080) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Semaphorin 3A (SEMA3A) (NM_006080) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Semaphorin 3A

Synonyms: coll-1; COLL1; HH16; Hsema-I; Hsema-III; SEMA1; SEMAD; SEMAIII; SEMAL; SemD

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this co

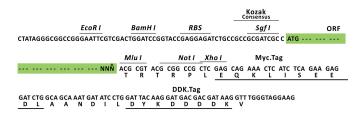
Sequence:

The ORF insert of this clone is exactly the same as(RC213681).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_006080

ORF Size: 2313 bp



Semaphorin 3A (SEMA3A) (NM_006080) Human Tagged Lenti ORF Clone - RC213681L3

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. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 006080.1</u>, <u>NP 006071.1</u>

 RefSeq Size:
 2530 bp

 RefSeq ORF:
 2316 bp

 Locus ID:
 10371

 UniProt ID:
 Q14563

 Cytogenetics:
 7q21.11

Domains:Sema, ig, IG, PSIProtein Families:Secreted Protein

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]