

Product datasheet for RC216341L3

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SEMA6D (NM 153617) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SEMA6D (NM_153617) Human Tagged Lenti ORF Clone

Tag:Myc-DDKSymbol:SEMA6D

Mammalian Cell

Puromycin

Selection: Vector:

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

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

ORF Nucleotide

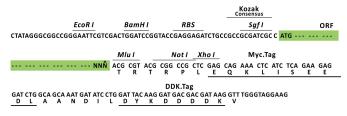
The ORF insert of this clone is exactly the same as(RC216341).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_153617

ORF Size: 3051 bp





SEMA6D (NM_153617) Human Tagged Lenti ORF Clone - RC216341L3

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 153617.1</u>

 RefSeq Size:
 5941 bp

 RefSeq ORF:
 3054 bp

 Locus ID:
 80031

 UniProt ID:
 Q8NFY4

Cytogenetics: 15q21.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Axon guidance

MW: 111.3 kDa

Gene Summary: Semaphorins are a large family, including both secreted and membrane associated proteins,

many of which have been implicated as inhibitors or chemorepellents in axon pathfinding, fasciculation and branching, and target selection. All semaphorins possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Additional sequence motifs C-terminal to the semaphorin

domain allow classification into distinct subfamilies. Results demonstrate that

transmembrane semaphorins, like the secreted ones, can act as repulsive axon guidance cues. This gene encodes a class 6 vertebrate transmembrane semaphorin that demonstrates alternative splicing. Several transcript variants have been identified and expression of the distinct encoded isoforms is thought to be regulated in a tissue- and development-dependent

manner. [provided by RefSeq, Nov 2010]