

Product datasheet for RC230452L3

OriGene Technologies, Inc.

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Semaphorin 3E (SEMA3E) (NM_001178129) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Semaphorin 3E (SEMA3E) (NM_001178129) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Semaphorin 3E

Synonyms: coll-5; M-SEMAH; M-SemaK; SEMAH

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 thi

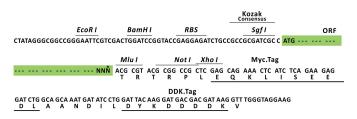
Sequence:

The ORF insert of this clone is exactly the same as(RC230452).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_001178129

ORF Size: 2145 bp



Semaphorin 3E (SEMA3E) (NM_001178129) Human Tagged Lenti ORF Clone - RC230452L3

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 001178129.1</u>, <u>NP 001171600.1</u>

 RefSeq ORF:
 2148 bp

 Locus ID:
 9723

 UniProt ID:
 015041

 Cytogenetics:
 7q21.11

Protein Families: Secreted Protein

Protein Pathways: Axon guidance

MW: 82.9 kDa

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. This gene encodes a class 4 semaphorin. This gene encodes a class 3 semaphorin.

Multiple transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, May 2010]