

Product datasheet for RC216807L4

OriGene Technologies, Inc.

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Gemin 2 (GEMIN2) (NM_001009183) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Gemin 2 (GEMIN2) (NM 001009183) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Gemin 2

Synonyms: SIP1; SIP1-delta

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

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

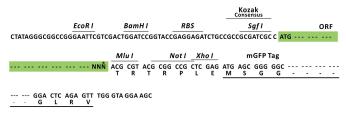
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC216807).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001009183

ORF Size: 750 bp

Gemin 2 (GEMIN2) (NM_001009183) Human Tagged Lenti ORF Clone - RC216807L4

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 001009183.1</u>, <u>NP 001009183.1</u>

14q21.1

 RefSeq Size:
 1309 bp

 RefSeq ORF:
 720 bp

 Locus ID:
 8487

 UniProt ID:
 014893

Protein Families: Druggable Genome, Stem cell - Pluripotency

MW: 28 kDa

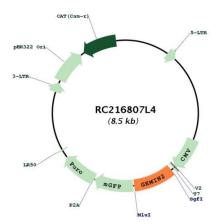
Cytogenetics:

Gene Summary: This gene encodes one of the proteins found in the SMN complex, which consists of several

gemin proteins and the protein known as the survival of motor neuron protein. The SMN complex is localized to a subnuclear compartment called gems (gemini of coiled bodies) and is required for assembly of spliceosomal snRNPs and for pre-mRNA splicing. This protein interacts directly with the survival of motor neuron protein and it is required for formation of the SMN complex. A knockout mouse targeting the mouse homolog of this gene exhibited disrupted snRNP assembly and motor neuron degeneration. [provided by RefSeq, Aug 2011]



Product images:



Circular map for RC216807L4