

## Product datasheet for **RC233213**

### Gemin 5 (GEMIN5) (NM\_001252156) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gemin 5 (GEMIN5) (NM_001252156) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GEMIN5
Synonyms:	GEMIN-5; NEDCAM
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC233213 representing NM_001252156 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >RC233213 representing NM\_001252156  
 Red=Cloning site Green=Tags(s)

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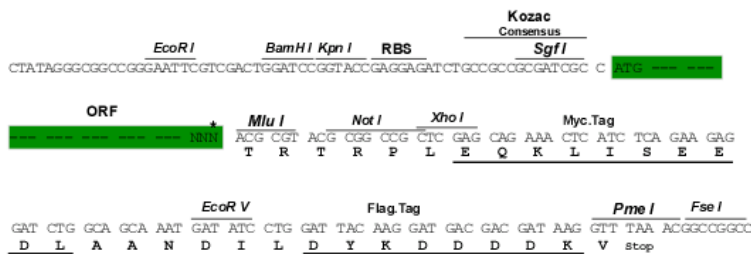
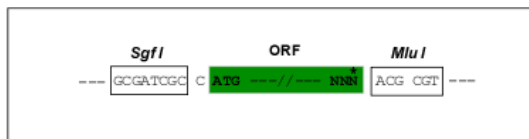
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**Restriction Sites:**

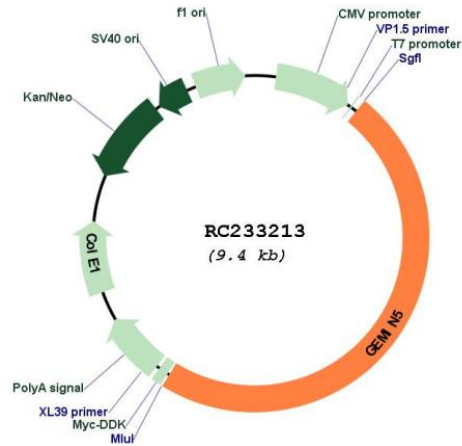
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001252156

**ORF Size:** 4521 bp

**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:** [NM\\_001252156.1](#), [NP\\_001239085.1](#)

**RefSeq Size:** 5401 bp

**RefSeq ORF:** 4524 bp

**Locus ID:** 25929

**UniProt ID:** [Q8TEQ6](#)

**Cytogenetics:** 5q33.2

**Protein Families:** Druggable Genome

**MW:** 168.9 kDa

**Gene Summary:** This gene encodes a WD repeat protein that is a component of the survival of motor neurons (SMN) complex. The SMN complex plays a critical role in mRNA splicing through the assembly of spliceosomal small nuclear ribonucleoproteins (snRNPs), and may also mediate the assembly and transport of other classes of ribonucleoproteins. The encoded protein is the snRNA-binding component of the SMN complex. Dysregulation of this gene may play a role in alternative mRNA splicing and tumor cell motility. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]