

## Product datasheet for **RC211219L3V**

### Gemin 2 (GEMIN2) (NM\_003616) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Gemin 2 (GEMIN2) (NM_003616) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | Gemin 2  |
| Synonyms:                 | SIP1; SIP1-delta   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_003616  |
| ORF Size:                 | 840 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC211219).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_003616.2</a> , <a href="#">NP_003607.1</a>  |
| RefSeq Size:              | 1368 bp  |
| RefSeq ORF:               | 810 bp   |
| Locus ID:                 | 8487   |
| UniProt ID:               | <a href="#">O14893</a>   |
| Cytogenetics:             | 14q21.1  |
| Protein Families:         | Druggable Genome, Stem cell - Pluripotency   |
| MW:                       | 31.6 kDa   |



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**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 (geminini 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]