

# **Product datasheet for TP311219M**

#### OriGene Technologies, Inc.

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### Gemin 2 (GEMIN2) (NM\_003616) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human survival of motor neuron protein interacting protein 1 (SIP1),

transcript variant alpha, 100 µg

Species: Human
Expression Host: HEK293T

**Expression cDNA** >RC211219 protein sequence Clone or AA Sequence: Red=Cloning site Green=Tags(s)

MRRAELAGLKTMAWVPAESAVEELMPRLLPVEPCDLTEGFDPSVPPRTPQEYLRRVQIEAAQCPDVVVAQ IDPKKLKRKQSVNISLSGCQPAPEGYSPTLQWQQQQVAQFSTVRQNVNKHRSHWKSQQLDSNVTMPKSED EEGWKKFCLGEKLCADGAVGPATNESPGIDYVQIGFPPLLSIVSRMNQATVTSVLEYLSNWFGERDFTPE LGRWLYALLACLEKPLLPEAHSLIRQLARRCSEVRLLVDSKDDERVPALNLLICLVSRYFDQRDLADEPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**Predicted MW:** 31.4 kDa

Concentration:  $>0.05 \mu g/\mu L$  as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling

conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** NP 003607

Locus ID: 8487



#### Gemin 2 (GEMIN2) (NM\_003616) Human Recombinant Protein - TP311219M

UniProt ID: O14893
RefSeq Size: 1368
Cytogenetics: 14q21.1
RefSeq ORF: 840

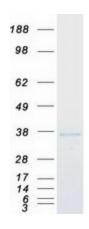
Synonyms: SIP1; SIP1-delta

**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]

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

## **Product images:**



Coomassie blue staining of purified GEMIN2 protein (Cat# [TP311219]). The protein was produced from HEK293T cells transfected with GEMIN2 cDNA clone (Cat# [RC211219]) using MegaTran 2.0 (Cat# [TT210002]).