OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC303357

Gemin 2 (GEMIN2) (NM_003616) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gemin 2 (GEMIN2) (NM_003616) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gemin 2
Synonyms:	SIP1; SIP1-delta
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_003616 edited
GCATGCGCCGAGCGGAACTGGCTGGTTTGAAAACCATGGCGTGGGTACCAGCGGAGTCCG
CAGTGGAAGAGTTGATGCCTCGGCTATTGCCGGTAGAGCCTTGCGACTTGACGGAAGGTT
TCGATCCCTCGGTACCCCCGAGGACGCCTCAGGAATACCTGAGGCGGGTCCAGATCGAAG
CAGCTCAATGTCCAGATGTTGTGGTAGCTCAAATTGACCCAAAGAAGTTGAAAAGGAAGC
AAAGTGTGAATATTTCTCTTTCAGGATGCCAACCCGCCCCTGAAGGTTATTCCCCAACAC
TTCAATGGCAACAGCAACAAGTGGCACAGTTTTCAACTGTTCGACAGAATGTGAACAAAC
ATAGAAGTCACTGGAAATCACAACAGTTGGATAGTAATGTGACAATGCCAAAATCTGAAG
ATGAAGAAGGCTGGAAGAAATTTTGTCTGGGTGAAAAGTTATGTGCTGACGGGGCTGTTG
GACCAGCCACAAATGAAAGTCCTGGAATAGATTATGTACAAATTGGTTTTCCTCCCTTGC
TTAGTATTGTTAGCAGAATGAATCAGGCAACAGTAACTAGTGTCTTGGAATATCTGAGTA
ATTGGTTTGGAGAAAGAGACTTTACTCCAGAATTGGGAAGATGGCTTTATGCTTTATTGG
CTTGTCTTGAAAAGCCTTTGTTACCTGAGGCTCATTCACTGATTCGGCAGCTTGCAAGAA
GGTGCTCTGAAGTGAGGCTCTTAGTGGATAGCAAAGATGATGAGAGGGTTCCTGCTTTGA
ATTTATTAATCTGCTTGGTTAGCAGGTATTTTGACCAACGTGATTTAGCTGATGAGCCAT
CTTGATGTAGCTGATCTCTCAGGGATAGAAGATATTTCTCATGAAGGCAGCCTAACTCTG
AGGAAAACAATGCCAATTCAA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003616 unedited
GTGCCTTTGTATACGACTCCTATAGGGCGGCCGCGTACTTCGCCCTTGCATGCGCCGAGC
GGAACTGGCTGGTTTGAAAACCATGGCGTGGGTACCAGCGGAGTCCGCAGTGGAAGAGTT
GATGCCTCGGCTATTGCCGGTAGAGCCTTGCGACTTGACGGAAGGTTTCGATCCCTCGGT
ACCCCCGAGGACGCCTCAGGAATACCTGAGGCGGGTCCAGATCGAAGCAGCTCAATGTCC
AGATGTTGTGGTAGCTCAAATTGACCCAAAGAAGTTGAAAAGGAAGCAAAGTGTGAATAT
TTCTCTTTCAGGATGCCAACCCGCCCCTGAAGGTTATTCCCCAACACTTCAATGGCAACA
GCAACAAGTGGCACAGTTTTCAACTGTTCGACAGAATGTGAACAAACATAGAAGTCACTG
GAAATCACAACAGTTGGATAGTAATGTGACAATGCCAAAATCTGAAGATGAAGAAGGCTG
GAAGAAATTTTGTCTGGGTGAAAAGTTATGTGCTGACGGGGCTGTTGGACCAGCCACAAA
TGAAAGTCCTGGAATAGATTATGTACAAATTGGTTTTCCTCCCTTGCTTAGTATTGTTAG
CAGAATGAATCAGGCAACAGTAACTAGTGTCTTGGAATATCTGAGTAATTGGTTTGGAGA
AAGAGACTTTACTCCAGAATTGGGAAGATGGCTTTATGCTTTATTGGCTTGTCTTGAAAA
GCCTTTGTTACCTGAGGCTCATTCACTGATTCGGCAGCTTGCAAGAAGGTGCTCTGAAGT
GAGGCTCTTAGTGGATAGCAAGATGATGAGAGGGTTTCCTGCTTTGAATTTATTAATCTG
CTTGGTTAGCAGGTATTTTGACCAACGTGATTTAGCTGATGAGCCATCTTGATGTAGCTG
ATCTCTCAGGGATAGAAAGAATATTTTCTCATGAAGGCAGCCTAACCTTCTGGAGGAAAA
AACAATGGCA
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Restriction Sites: Please inquire

ACCN: NM_003616

Insert Size: 900 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_003616.2, NP_003607.1

RefSeq Size: 1368 bp

RefSeq ORF: 843 bp

Locus ID: 8487

UniProt ID: O14893

Cytogenetics: 14q21.1

Protein Families: Druggable Genome, Stem cell - Pluripotency

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] Transcript Variant: This variant (alpha) represents the longest transcript and encodes the longest isoform (alpha).