

## Product datasheet for **SC108685**

### Gemin 8 (GEMIN8) (NM\_017856) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gemin 8 (GEMIN8) (NM_017856) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gemin 8
Synonyms:	FAM51A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017856, the custom clone sequence may differ by one or more nucleotides

```
ATGGCAGCGGTA AAGGCATCAACATCGAAAGCTACCAGGCCTTGGTATTCTCATCCGGTATATGCAAGAT
ACTGGCAACATTATCATCAAGCAATGGCTTGGATGCAAAGCCATCACAATGCCTACAGGAAGGCCGTGGA
ATCCTGTTTCAATCTTCCATGGTACTTACCTTCTGCGCTTCTTCCCAAAGCTTTACGATAATGAGGCT
GCGTATCCTCAGTCCTTCTATGACCATCATGTGGCCTGGCAGGACTACCCTGCAGTTCTTCACATTTCA
GAAGATCTGGGCAGCATCCACGTTACAGCAGTAGGATCCAGGCATCCACAAAAGAAGACCAAGCTTTGTC
CAAAGAGGAAGAGATGGAGACTGAGTCAGATGCAGAGGTAGAATGTGACCTGAGCAATATGGAAATCACT
GAAGAGCTCCGCCAGTACTTTGCAGAGACCGAGAGGCATAGAGAAGAACGACGGCGGCAGCAGCAGCTGG
ATGCAGAGCGCCTGGACAGCTATGTGAACGCTGACCACGACCTGTACTGCAACACCCGCCGTGCGTAGA
AGCCCCAACTGAGAGGCCTGGTGAAGCGGCCAGGCCGAGATGAAGCGTTTGTACGGGGACAGTGCTGCC
AAGATCCAAGCCATGGAGGCCGCGGTGCAGCTGAGCTTTGACAAGCACTGTGACCGAAAGCAGCCCAAGT
ACTGGCCGGTCATCCCCCTGAAGTTCTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017856 unedited  
 CGGCCGCGAATTCGGCACGAGGCAGCCGCTCCCTCGCGTCCCCACTCCCCCTGTCT  
 CTCCAAGGAAAATAGGCCCTGCGCGGCAACGCCAGGATCCGCAAGCTGCGGCCCA  
 CGAGGTGACTTCGGGGACGGCTGGGTTTCTTTGGGGAGTGAGGGAGGAGCTTAGACGCC  
 CCGGGCCCTGGCTTCTTCTGATGCGCAGAGGCCGAGGCTTTGGACGTACGTTGCTCTC  
 ATAATTATCTTAATCCC CGCACAAAAGTGGGGCCGAGGCCATGAGATTCTAAATCA  
 TTGCAGGTTAATTGTGAGAGGGGACCAGTCCCAGAGGCTCTCAGCTCTGCAGTGTCCG  
 AATCACTGGACGACTCTTTAAGAATTCTGATCCCCGGGCCCCATCCCGACCAATGAAA  
 TCAGAATCTCTAATAGTGGGGCCCTGGCATCGGTAGTTTTTAAAGCTGCCAGGTGATTC  
 TGGGGTCCGAGAACCACCGTGTAAAGTCTGTAGGTGAATTCGATTTTGCCATCCAG  
 TCCAGTATCTGAATAGAAGATCGCCAGGACAGCCACATACTTGAAGGATGTCTAGGATA  
 TTGCCCTCTCGCTCAAAAATTCGGGTTTCTTTCTTTCTTCTTGCACCTTAACCTCTGCA  
 GGANGTCAGCTTTTGTGGGGAGTTATCTTGAGACATCTGGCGCCTACANGTTATGGGNCC  
 TTGTGTCTCTGCCACTTATCAGTATGAGCTGTATTTGACCAGTGGCAACGAATGCATTNT  
 ACTCTGAATCTTGATGTCCCTAGTACGATCAGATGGTCTGACAATTTATTTTTTCAGAAT  
 GATGTTTTAACTCGTTGACGCTAGGCTGGTATTAGCTGTCTTCTCAATCGACATATA  
 TTTAAATTGAACTAGATAGTACGACTCCTAGATATTTGCTCAGCCATGATGTAGAACGA  
 AGCACTTAAAACATTTGACTAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_017856 unedited  
 NTTTTTCTTTGGCCGCGCCGAATCTANGATCGGNTTTTTTTTTTTTTTTTTTTTTTTA  
 TTTTATGTCAGGAAAAAATTTATCATGGTTGGCAACAGAAACATGTTCTGCAGAACCT  
 CCCAAGGTGGCTGGCATANGTACATTTCCACCCCGGTGACANNGGCCACTGGGACTGTG  
 GTAGAACATGNCCTGTACCCAGTACAAAGTCCCCTTTCCCTAAGAAATGTACAGAAGGA  
 GAGATAAAGAGCGTGTACCCAAAAGGAAGAAGGAGAGGCTGGGTACCCCTGTGCCCTGAGC  
 TCAGAACTTCAGGGGGATGACCGGCCAGTACTTGGGCTGCTTTCCGGTACAGTGTCTGTC  
 AAAGCTCAGTGCACCGCGCCTCCATGGCTTGGATCTTGGCAGCACTGTCCCGTACAA  
 ACGCTTCATCTCGGCCTGGCGCCGCTCACCAGGCTCTCAGTTGGGGCTTCTACCGACC  
 GCGGGTGTGTCAGTACAGGTCGTGGTCAGCGTTCACATAGCTGTCCAGGCGCTCTGCATC  
 CAGCTGCTGCTGCCCGCTCGTTCTTCTCTATGCCTCTCGGTCTCTGCAAAGTACTGGCG  
 GAGCTCTTCAGTGATTTCCATATTGCTCAGGTCACATTCTACCTCTGCATCTGACTCAGT  
 CTCATCTCTTCTCTTTGGACAAAGCTTGGTCTTCTTTTGTGGATGCCTGGATCCTACT  
 GCTGTAACGTGGATGCTGCCAGATCTTCTGAAATGTGAAGAAGTGCAGGGGTAGTCTGT  
 CCAGGCCACATGATGGCCTTAGAAGGACTGGAGATACCCACCCTCATTATCCGTAGAGCT  
 TGGGGGACAACCCAGAAGGTAATACCATGGAAGATGNAACCGGATTCCACGGCCTCTG  
 TAGCCATGGGATGGCTTTCATCCAACCATTGTTGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_017856

**Insert Size:**

5890 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).

**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\\_017856.1](#), [NP\\_060326.1](#)

**RefSeq Size:** 1701 bp

**RefSeq ORF:** 729 bp

**Locus ID:** 54960

**UniProt ID:** [Q9NWZ8](#)

**Cytogenetics:** Xp22.2

**Gene Summary:** The protein encoded by this gene is part of the SMN complex, which is necessary for spliceosomal snRNP assembly in the cytoplasm and pre-mRNA splicing in the nucleus. The encoded protein binds to both SMN1 and the GEMIN6/GEMIN7 heterodimer, mediating their interaction. This protein is found in nuclear Gemini of Cajal bodies (gems) and in the cytoplasm. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, May 2010]

Transcript Variant: This variant (3) represents the longest transcript. All three variants encode the same protein.