

## Product datasheet for SC311242

### Gemin 8 (GEMIN8) (NM\_001042480) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gemin 8 (GEMIN8) (NM_001042480) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gemin 8
Synonyms:	FAM51A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311242 representing NM_001042480. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCGGTAAGGCATCAACATCGAAAGCTACCAGGCCTTGGTATTCTCATCCGGTATATGCAAGA
TACTGGCAACATTATCATCAAGCAATGGCTTGGATGCAAAGCCATCACAATGCCTACAGGAAGGCCGTG
GAATCCTGTTTCAATCTCCATGGTACTTACCTTCTGCGCTTCTCCCAAAGCTCTTACGATAATGAG
GCTGCGTATCCTCAGTCTTCTATGACCATCATGTGGCCTGGCAGGACTACCCCTGCAGTCTTCCACAT
TTCAGAAGATCTGGGCAGCATCCAGTTACAGCAGTAGGATCCAGGCATCCACAAAAGAAGACCAAGCT
TTGTCCAAGAGGAAGAGATGGAGACTGAGTCAGATGCAGAGGTAGAATGTGACCTGAGCAATATGGAA
ATCACTGAAGAGCTCCGCCAGTACTTTGCAGAGACCGAGAGGCATAGAGAAGAACGACGGCGGCAGCAG
CAGCTGGATGCAGAGCGCTGGACAGCTATGTGAACGCTGACCACGACCTGTACTGCAACACCCGCCGG
TCGGTAGAAGCCCAACTGAGAGGCCTGGTGGCAGCGCCAGGCCGAGATGAAGCGTTTGTACGGGGAC
AGTGCTGCCAAGATCCAAGCCATGGAGGCCGGTGCAGCTGAGCTTTGACAAGCACTGTGACCGAAAG
CAGCCCAAGTACTGGCCGGTCATCCCCCTGAAGTTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001042480
Insert Size:	729 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001042480.1</a></u>
<b>RefSeq Size:</b>	3089 bp
<b>RefSeq ORF:</b>	729 bp
<b>Locus ID:</b>	54960
<b>UniProt ID:</b>	<u><a href="#">Q9NWZ8</a></u>
<b>Cytogenetics:</b>	Xp22.2
<b>MW:</b>	28.6 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 3. All three variants encode the same protein.</p>