

Product datasheet for **SC319331**

Geminin (GMNN) (NM_015895) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Geminin (GMNN) (NM_015895) Human Untagged Clone
Tag:	Tag Free
Symbol:	Geminin
Synonyms:	Gem; MGORS6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_015895.3
 GTTCGGAGCGGGCGAGCGAGTTAGCAGGGCTTTACTGCAGAGCGCGCCGGCACTCCAG
 CGACCGTGGGGATCAGCGTAGGTGAGCTGTGGCCTTTTTCGAGGTGCTGCAGCCATAGCT
 AAGTGGGTACGCAGGGGCGCAAGGCGCACAGCCTCTAGACGACTCGCTTCCCTCCGGCC
 AACCTCTGAAGCCGCGTCTACTTTGACAGCTGCAGGGCCGCGCCTGGTCTTCTGTGCT
 TCACCATCTACATAATGAATCCCAGTATGAAGCAGAAACAAGAAGAAATCAAAGAGAATA
 TAAAGAATAGTTCTGTCCCAAGAAGAACTCTGAAGATGATTGAGCCTTCTGCATCTGGAT
 CTCTTGTGGAAGAGAAAATGAGCTGTCCGAGGCTTGTCCAAAAGGAAACATCGGAATG
 ACCACTTAACATCTACAACCTCCAGCCCTGGGGTATTGTCCAGAATCTAGTAAAATA
 AAAATCTTGGAGGAGTCAACCAGGAGTCAATTTGATCTTATGATTAAGAAAATCCATCCT
 CTCAGTATTGGAAGGAAGTGGCAGAAAAACGGAGAAAGGCGCTGTATGAAGCACTTAAGG
 AAAATGAGAACTTCATAAAGAAATTGAACAAAAGGACAATGAAATTGCCCGCCTGAAAA
 AGGAGAATAAAGAAGTGGCAGAAGTAGCAGAACATGTACAGTATATGGCAGAGCTAATAG
 AGAGACTGAATGGTGAACCTCTGGATAATTTTGAATCACTGGATAATCAGGAATTTGATT
 CTGAAGAAGAACTGTTGAGGATTCTCTAGTGAAGACTCAGAAATTGGCACGTGTGCTG
 AAGGAAGTGTATCTTCTACGGATGCAAAGCCATGTATATGAAATGCATTAATATTTG
 ACTGTTGAGAATTTTACTGCCGAAGTTTACCTCCACTAGTTCTTTGTAGCAGAGTACATA
 ACTACATAATGCCAACTCTGGAATCAAATTTCTTGTGTTGAATCCTGGGACCCTATTGCA
 TTAAGTACAAAATACTATGTATTTTAACTATGATGGTTTATGTGAATAGGATTTTCTC
 AGTTGTACGCCATGACTTATGTTTATTACTAAATAAACTTCAAACCTCTGTGAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_015895



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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:	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.
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:	<ol style="list-style-type: none"> 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:	<u>NM_015895.3</u> , <u>NP_056979.1</u>
RefSeq Size:	1215 bp
RefSeq ORF:	630 bp
Locus ID:	51053
UniProt ID:	<u>O75496</u>
Cytogenetics:	6p22.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Gene Summary:	<p>This gene encodes a protein that plays a critical role in cell cycle regulation. The encoded protein inhibits DNA replication by binding to DNA replication factor Cdt1, preventing the incorporation of minichromosome maintenance proteins into the pre-replication complex. The encoded protein is expressed during the S and G2 phases of the cell cycle and is degraded by the anaphase-promoting complex during the metaphase-anaphase transition. Increased expression of this gene may play a role in several malignancies including colon, rectal and breast cancer. Alternatively spliced transcript variants have been observed for this gene, and two pseudogenes of this gene are located on the short arm of chromosome 16. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3 and 4 encode the same protein.</p>