

Product datasheet for **RG232138**

Geminin (GMNN) (NM_001251990) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Geminin (GMNN) (NM_001251990) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GMNN
Synonyms: Gem; MGORS6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232138 representing NM_001251990
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATCCAGTATGAAGCAGAAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTGTCCCAAGAA
 GAACTCTGAAGATGATTCAGCCTTCTGCATCTGGATCTCTTGTGGAGAGAAAAATGAGCTGTCCGAGG
 CTTGTCCAAAAGGAAACATCGGAATGACCCTAACATCTACAACCTCCAGCCCTGGGGTTATTGTCCCA
 GAATCTAGTGAAAATAAAAATCTTGAGGAGTCAACCAGGAGTCATTTGATCTTATGATTAAGAAAAATC
 CATCCTCTCAGTATTGGAAGGAAGTGGCAGAAAAACGGAGAAAGGCGCTGTATGAAGCATTAAAGAAAA
 TGAGAAATTCATAAAGAAATTGAACAAAAGGACAATGAAATTGCCCGCCTGAAAAAGGAGAATAAAGAA
 CTGGCAGAAAGTAGCAGAACATGTACAGTATATGGCAGAGCTAATAGAGAGACTGAATGGTGAACCTCTGG
 ATAATTTTGAATCACTGGATAATCAGGAATTTGATTCTGAAGAAGAACTGTTGAGGATTCTAGTGGAA
 GACTCAGAAATTGGCACGTGTGCTGAAGGAAGTATCTTCTCTACGGATGCAAAGCCATGTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232138 representing NM_001251990
 Red=Cloning site Green=Tags(s)

MNPSMKQKQEEIKENIKNSSVPRRLKMIQPSASGSLVGRENELSAGLSKRKHRNDHLTSTTSSPGVIVP
 ESSENKNLGGVTQESFDLMIKENPSSQYWEVAEKRRKALYEALKENEKLHKEIEQKDNEIARLKKENKE
 LAEVAEHVQYMAELIERLNGEPLDNFESLDNQEFDSEETVEDSLVEDSEIGTCAEGTVSSSTDAKPCI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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_001251990.2](#)

RefSeq Size: 1067 bp

RefSeq ORF: 630 bp

Locus ID: 51053

UniProt ID: [O75496](#)

Cytogenetics: 6p22.3

Protein Families: Druggable Genome, Stem cell - Pluripotency

Gene Summary: 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]