

Product datasheet for TP302808M

OriGene Technologies, Inc.

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Geminin (GMNN) (NM_015895) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human geminin, DNA replication inhibitor (GMNN), 100 μg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC202808 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MNPSMKQKQEEIKENIKNSSVPRRTLKMIQPSASGSLVGRENELSAGLSKRKHRNDHLTSTTSSPGVIVP ESSENKNLGGVTQESFDLMIKENPSSQYWKEVAEKRRKALYEALKENEKLHKEIEQKDNEIARLKKENKE LAEVAEHVQYMAELIERLNGEPLDNFESLDNQEFDSEEETVEDSLVEDSEIGTCAEGTVSSSTDAKPCI

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Tag: C-Myc/DDK

Predicted MW: 23.4 kDa

Concentration: $>0.05 \mu g/\mu L$ as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 056979

Locus ID: 51053

UniProt ID: <u>075496</u>, <u>A0A024QZY7</u>

RefSeq Size: 1275



Cytogenetics: 6p22.3

RefSeq ORF: 627

Synonyms: Gem; MGORS6

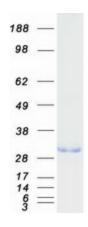
Summary: This gene encodes a protein that plays a critical role in cell cycle regulation. The encoded

> 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]

Protein Families: Druggable Genome, Stem cell - Pluripotency

Product images:



Coomassie blue staining of purified GMNN protein (Cat# [TP302808]). The protein was produced from HEK293T cells transfected with GMNN cDNA clone (Cat# [RC202808]) using

MegaTran 2.0 (Cat# [TT210002]).