

Product datasheet for RC203733

Gemin 4 (GEMIN4) (NM_015721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gemin 4 (GEMIN4) (NM_015721) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gemin 4
Synonyms:	HC56; HCAP1; HHRF-1; NEDMCR; p97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203733 representing NM_015721 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGC**C

ATGGACCTAGGACCCCTTGAACATCTGTGAAGAAATGACTATTCTGCATGGAGGCTTCTTGCTGGCCGAGC
AGCTGTTCCACCCTAAGGCACTGGCAGAATTAACAAAGTCTGACTGGGAACGTGTTGGACGGCCATCGT
GGAGGCCCTTAAGGGAGATCTCCTCGGCTGCAGCACACTCCAGCCCTTTGCCTGGAAGAAGAAAGCCCTG
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ATCCCTGGAAGCTTCTGGACTCTTATCCAGCTCCTGATGGCCCTGCCACCACCATCTGCCATGCAGAA
CTAGAGCGCTTTCTGGAACATGTGACCGTTGACACTTCTGCCGAAGACGTGGCCTTCTTCTGGACGCTCT
GGTGGGAGGTGATGAAGCACAAGGGTCACCCGCAGGACCCCTGCTCTCCAGTTTAGTGAATGGCCCA
TAAGTACCTGCCTGCCTTAGATGAGTTCACCCATCCTCCAAGAGGCTTAGGTGACAGCCAGACGCGTGC
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TCCCTGCCAGGTAAAAATAAGTCCTTGACAGGTATCCTGCGTTCCTGGGGCGAAAGGGCCTCTCTGAAA
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 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203733 representing NM_015721

Red=Cloning site Green=Tags(s)

MDLGPLNICEEMTILHGGFLLAEQLFHPKALAE LTKSDWERVGRPIVEALREISSAAHSQPF AWKKKAL
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 LERFLEHVTVDTS AEDVAFFLDVWWEVMKHKGHPQDPLL SQFSAMAHKYL PALDEFPHPPKRLRSDPDAC
 PTMPLLAMLLRGLTQIQSRILGPGRKCCALANLADMLTVFALTEDDPQEV SATVYLDK LATVISVWNSDT
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 SLTFSFSQ NATLYLNRTSLSKEDRQVVSELAECVRDFLRKTSTVLKNRALEDITASIAMA VIQQKMDRHME
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 GNPEEVRLFSKGFLVALVQVMPWCSPQEWQRLHQLTRR LLEKQLLHVPYSLEYIQFVPLLNLPFAQELQ
 LSVLFLRTFQFLCSHSCRDWLPLEGWNHVVKLLCGSLTRLLDSVRAIQAAGPWVQGPEDLTQEALFVYT
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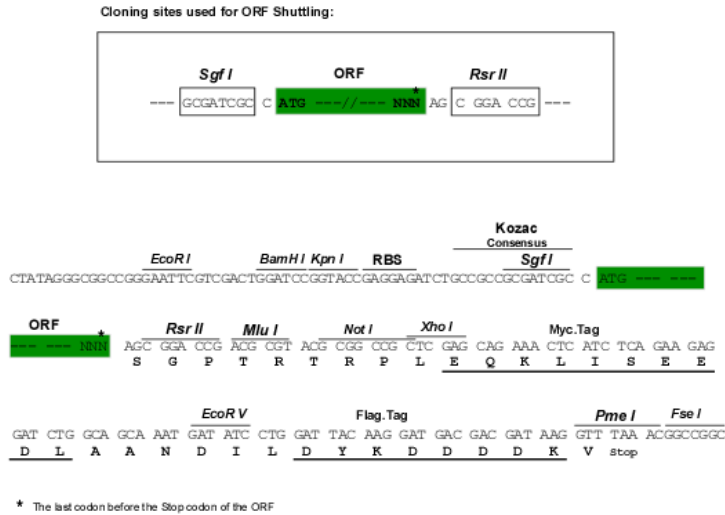
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8119_f06.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_015721

ORF Size: 3174 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

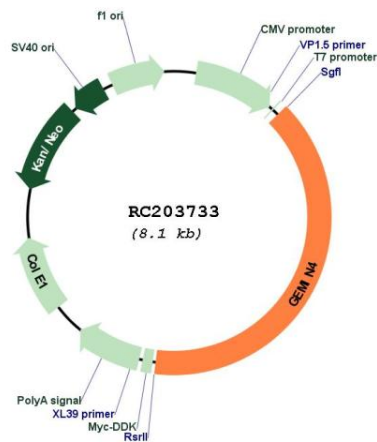
RefSeq: [NM_015721.3](#)

RefSeq Size: 3757 bp

RefSeq ORF: 3177 bp

Locus ID: 50628
UniProt ID: [P57678](#)
Cytogenetics: 17p13.3
Protein Families: Druggable Genome
MW: 120.5 kDa
Gene Summary: The product of this gene is part of a large complex localized to the cytoplasm, nucleoli, and to discrete nuclear bodies called Gemini bodies (gems). The complex functions in spliceosomal snRNP assembly in the cytoplasm, and regenerates spliceosomes required for pre-mRNA splicing in the nucleus. The encoded protein directly interacts with a DEAD box protein and several spliceosome core proteins. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC203733