

Product datasheet for **RR203320**

Grem1 (NM_019282) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grem1 (NM_019282) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Grem1
Synonyms: Cktsf1b1; drm
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR203320 representing NM_019282
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCGCACGGCATACACCGTAGGAGCTTTGCTTCTCCTCCTGGGAACCCACTGCCAGCAGCTGAAG
GGAAAAAGAAAGGGTCCCAAGGAGCCATCCCACCTCCTGACAAGGCTCAGCACAATGACTCCGAGCAGAC
CCAGTCCCACCACAACCTGGCTCCAGGACCCGGGGCCAGGGGCGGGCCACCGCCATGCCTGGA
GAGGAGGTGCTTGAGTCCAGCCAAGAGGCCCTGCATGTGACAGAGCGCAATACCTGAAGCGAGATTGGT
GCAAAACTCAGCCCTGAAGCAGACCATCCATGAGGAGGCTGCAACAGCCGCACTATCATCAATCGCTT
CTGTTACGGCCAGTGCAACTCCTTCTACATCCCAGGCATATCCGAAAAGAGGAAGGCTCCTTTCAGTCT
TGCTCCTTCTGCAAGCCAAGAAATTCACCACCATGATGGTCACACTCAACTGTCTGAGCTACAGCCAC
CCACCAAGAAGAAAAGAGTCACACGCGTGAAGCAGTGTGCTTGCATATCCATCGACTTGGAT

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

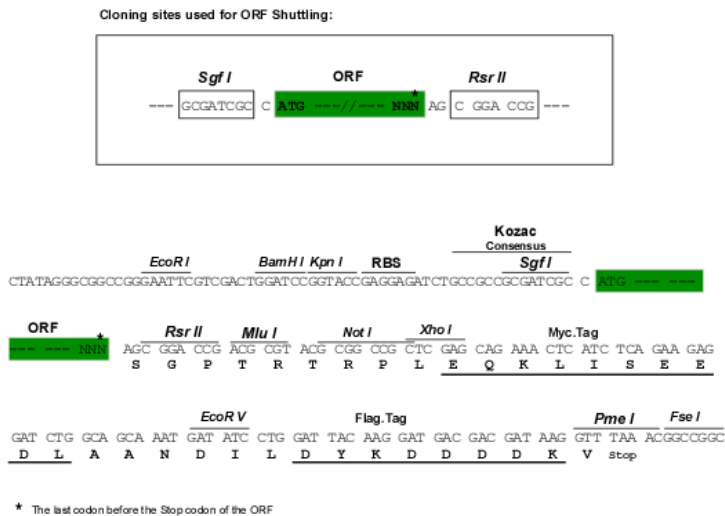
Protein Sequence: >RR203320 representing NM_019282
Red=Cloning site Green=Tags(s)

MNRTAYTVGALLLLLTLLPAAEGKKKGSQGAIPPPDKAQHNDSEQTQSPQPGRSRTRGRGQGRGTAMPG
EEVLESSQEALHVTERKYLKRDWCKTQPLKQTIHEEGNSRTIINRFYCYQCNSFYIPRHIRKEEGSFQS
CSFCKPKKFTTMMVTLNCPQLPPTKKKRVTRVKQCRCISIDL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-RsrII



Cloning Scheme:


ACCN: NM_019282

ORF Size: 552 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.

RefSeq: [NM_019282.3](#), [NP_062155.1](#)

RefSeq Size: 3809 bp

RefSeq ORF: 555 bp

Locus ID: 50566

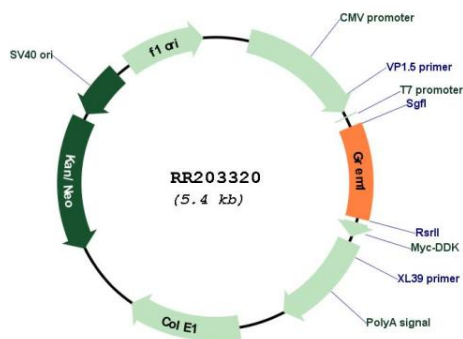
UniProt ID: [O35793](#)

Cytogenetics: 3q35

MW: 20.7 kDa

Gene Summary: protein may play a role in cellular growth control, viability and differentiation; high expression levels may induce apoptosis [RGD, Feb 2006]

Product images:



Circular map for RR203320