

Product datasheet for MR201681

Grem1 (NM 011824) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Grem1 (NM_011824) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Grem1

Synonyms: Cktsf1b1; Drm; Grem; ld

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR201681 representing NM_011824.
Sequence: Blue=ORF Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >Peptide sequence encoded by MR201681 Blue=ORF Red=Cloning site Green=Tag(s)

MNRTAYTVGALLLLLGTLLPTAEGKKKGSQGAIPPPDKAQHNDSEQTQSPPQPGSRTRGRGQGRGTAMP

 ${\tt GEEVLESSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPRHIRKEEGSF}$

QSCSFCKPKKFTTMMVTLNCPELQPPTKKKRVTRVKQCRCISIDLD

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Rsrll



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

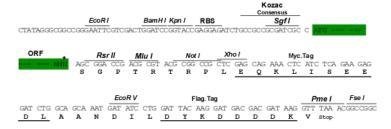
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 011824

ORF Size: 552 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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: <u>NM 011824.4</u>

RefSeq Size: 1639 bp

 RefSeq ORF:
 555 bp

 Locus ID:
 23892

 UniProt ID:
 070326

 Cytogenetics:
 2 57.43 cM

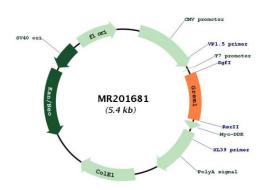
 MW:
 20.7 kDa

Gene Summary: Cytokine that may play an important role during carcinogenesis and metanephric kidney

organogenesis, as BMP a antagonist required for early limb outgrowth and patterning in maintaining the FGF4-SHH feedback loop (PubMed:12808456, PubMed:15201225). Down-regulates the BMP4 signaling in a dose-dependent manner (PubMed:15133038). Antagonist of BMP2; inhibits BMP2-mediated differentiation of osteoblasts (in vitro) (By similarity). Acts as

inhibitor of monocyte chemotaxis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201681