

## Product datasheet for MR201109

### Sap18 (NM\_009119) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sap18 (NM\_009119) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Sap18  
**Synonyms:** C530046K05Rik; D11Ertd539e; EMegR4; Sap18a; Sinbp1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201109 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGTGGAGTCGCGCTTACCCAGGAGGAAATTAAGAAGGAGCCGGAGAAGCCGATCGACCGCGAGA  
 AGACCTGCCCCTCTGCTGCGGTCTTCACCACCAACAACGCCGCCACCGAATGGACGAGTTCTC  
 CCGCGGAACGTGCTTCGAGCGAGCTGCAGATCTACACCTGGATGGATGCAACCTTGAAAGAACTGACT  
 AGTTTAGTGAAGGAAGTCTACCCAGAAGCCAGAAAGAAGGGCACACACTTCAATTTGCAATTGTTTTTA  
 TGGATCTTAAAGACCTGGATATCGAGTTAAGGAGATTGGCAGCACCATGTCTGGCAGGAAGGGCACTGA  
 TGAATCCATGACCTGCAGTCACAGAAGTTCAAATAGGGGATTATCTGGACATAGCCATCACGCCTCCA  
 AATCGGGCGCCGCTTCGTGAGGAGGATGAGACCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201109 protein sequence  
 Red=Cloning site Green=Tags(s)

MAVESRVTQEEIKKEPEKPIDREKTCPLLLRVFTTNNGRHHRMDEF SRGNVPSELQIYTWMDATLKELT  
 SLVKEVYPEARKKGFHNF AIVFMDLKRPGYRVEIGSTMSGRKGTDDSM TLQSQKFQIGDYLDIAITPP  
 NRAPPSSGRMPY

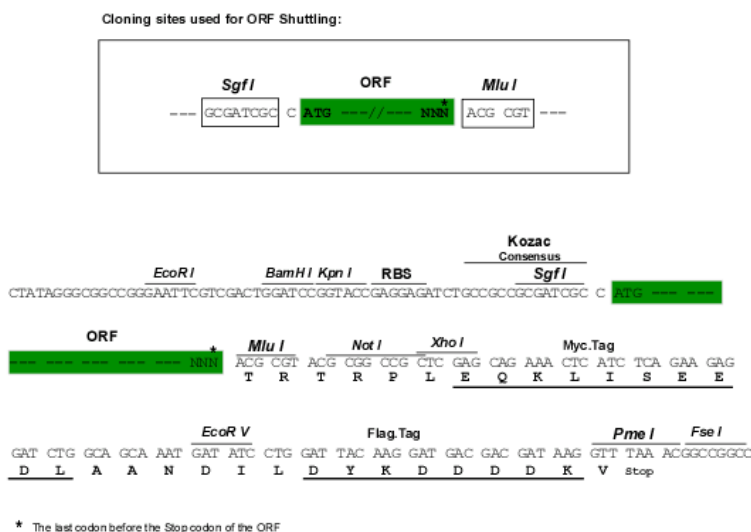
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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### Cloning Scheme:



ACCN: NM\_009119

ORF Size: 459 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\\_009119.2](#), [NP\\_033145.1](#)

RefSeq Size: 3472 bp

RefSeq ORF: 519 bp

Locus ID: 20220

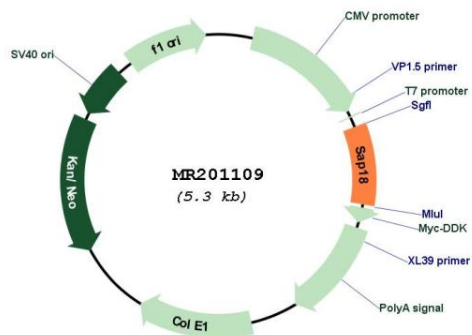
UniProt ID: [O55128](#)

Cytogenetics: 14 30.51 cM

MW: 17.6 kDa

**Gene Summary:** Component of the SIN3-repressing complex. Enhances the ability of SIN3-HDAC1-mediated transcriptional repression. When tethered to the promoter, it can direct the formation of a repressive complex to core histone proteins. Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Component of the ASAP and PSAP complexes which bind RNA in a sequence-independent manner and are proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets. The ASAP complex can inhibit mRNA processing during in vitro splicing reactions. The ASAP complex promotes apoptosis and is disassembled after induction of apoptosis. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes); specifically inhibits the formation of proapoptotic isoforms such as Bcl-X(S); the activity is different from the established EJC assembly and function (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR201109