

Product datasheet for MC203350

Mms19 (NM_028152) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mms19 (NM_028152) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mms19
Synonyms: 2410001K24Rik; 2610042O15Rik; AI316855; C79368; C86341; Mms19I
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC050817

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GTCATGGCTGCCGCCACCGGTCTGGAGGAGGCAGTGGCGCCTATGGGCGCCCTGTGTGGCCTCGTGAAG
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- Restriction Sites:** RsrII-NotI
- ACCN:** NM_028152
- Insert Size:** 3096 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:	<ol style="list-style-type: none">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:	<u>BC050817</u> , <u>AAH50817</u>
RefSeq Size:	3959 bp
RefSeq ORF:	3096 bp
Locus ID:	72199
UniProt ID:	<u>Q9D071</u>
Cytogenetics:	19 C3
Gene Summary:	<p>Key component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into apoproteins specifically involved in DNA metabolism and genomic integrity. In the CIA complex, MMS19 acts as an adapter between early-acting CIA components and a subset of cellular target Fe/S proteins such as ERCC2/XPD, FANCI and RTEL1, thereby playing a key role in nucleotide excision repair (NER), homologous recombination-mediated double-strand break DNA repair, DNA replication and RNA polymerase II (POL II) transcription. As a CIA complex component and in collaboration with CIAO1 and CIAO2, binds to and facilitates the assembly of most cytosolic-nuclear Fe/S proteins. As part of the mitotic spindle-associated MMXD complex, plays a role in chromosome segregation, probably by facilitating iron-sulfur cluster assembly into ERCC2/XPD. Indirectly acts as a transcriptional coactivator of estrogen receptor (ER), via its role in iron-sulfur insertion into some component of the TFIIH-machinery.[UniProtKB/Swiss-Prot Function]</p>