

Product datasheet for **MR209441**

Msl1 (NM_028722) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Msl1 (NM_028722) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Msl1
Synonyms:	2810017F12Rik; 4121402D02Rik; 4930463F05Rik; AA682082; Msl-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209441 representing NM_028722
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCATGAGATCCGCAGTGTTCAGGCGGCCGCGGCCCTGCCGCGGCAACCCGAGCAGCAGTGG
 ACTACGAGCGGGCTGCGGCGCTGGGCGGGCCGAGGACGAGTCCGGGCGGCCGAAGCCATTTCCTCCC
 CCGGCATCGTAAGCTCAAGGAGCCGGGGCCCCCTGGCCTCTTCCCAGGCGGGAGCCCTCGCCCTCT
 CCAGCCGGCTGCGGCGCGGCAAGGGCCGGGGCTTGTACTCCAGCCGGGGCGGCCCGGCGAGCAGG
 AAGAGAGCTGGGCGGTTTCGGTGCCTTGCCCTGTCCGCCCCAGCTACTAAACAAGCCGGCATCGGCGG
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 CACCGCCACTGCTGGGACCTGGCGGCCAGTGAAGGAGTATAAGGAAGAGCCCTCTCGGG
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 GCACACACCTCACCGGACCTGTAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209441 representing NM_028722
 Red=Cloning site Green=Tags(s)

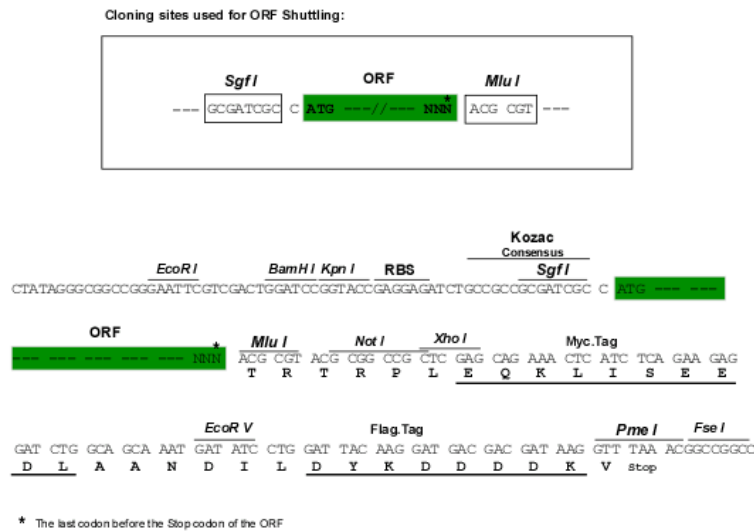
MTMRSVFKAAAAAPAGGNPEQRLDYERAAALGGPEDESGAAEAHFLPRHRKLKEPGPPLASSQGGSPPS
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 PEFKVKTKTPKHSPIKEEPCGSISETVCKRELRSQETPEKPRSSVDTPPRLSTPQKGPSTHPKEKAFSS
 EMEDLPYLSTTEMYLCRWHQPPPSPLPLRESSPKKEETVARCLMPSSVAGETSVLAVPSWRDHSVEPLRD
 PNPSDILENLDDSVFSKRHAKLELDEKRRKRWDIQRIREQRILQRLQRLMYKKKGIQESEPEVTSFFPEP
 DDVESLLITPFLPVVAFGRPLPKLAPQNFELPWLDERSRCLIEIQKHTPHRTCRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9046_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028722

ORF Size: 1848 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.

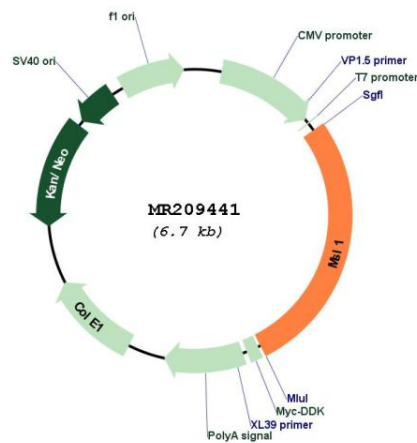
RefSeq: [NM_028722.3](#)

RefSeq Size: 4358 bp

RefSeq ORF: 1851 bp
 Locus ID: 74026
 UniProt ID: [Q6PDM1](#)
 Cytogenetics: 11 D
 MW: 67.8 kDa

Gene Summary: Component of histone acetyltransferase complex responsible for the majority of histone H4 acetylation at 'Lys-17' which is implicated in the formation of higher-order chromatin structure (By similarity). Greatly enhances MSL2 E3 ubiquitin ligase activity, promoting monoubiquitination of histone H2B at 'Lys-35' (H2BK34Ub). This modification in turn stimulates histone H3 methylation at 'Lys-5' (H3K4me) and 'Lys-80' (H3K79me) and leads to gene activation, including that of HOXA9 and MEIS1. In the MSL complex, acts as a scaffold to tether MSL3 and KAT8 together for enzymatic activity regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209441