

Product datasheet for **MC219735**

Msl1 (NM_028722) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC219735 representing NM_028722
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCATGAGATCCGCAGTGTTC AAGCGGCCGCGGCCCTGCCGGCGGCAACCCCGAGCAGCAGTGG
 ACTACGAGCGGGCTGCGGCGCTGGGCGGCCCGAGGACGAGTCCGGGGCGGCCGAAGCCATTTCCTCCC
 CCGGCATCGTAAGCTCAAGGAGCCGGGGCCCCCGCTGGCCTCTTCCCAGGGCGGGAGCCCTCGCCCTCT
 CCAGCCGGCTGCGGCGCGGCAAGGGCCGGGGCTTGTACTCCCAGCCGGGGCGGCCCGGGCAGCAGG
 AAGAGAGCTGGGGCGTTTCGGTGCCTTGCCTGTCCGCCCCAGCTACTAAACAAGCCGGCATCGGCGG
 GGAGCCAGTGCAGCCGGCGCTGGCTGCAGCCCCGGCCCAAGTATCAGGCGGTGCTGCCATTAGACG
 GGCTCTATCGTGGTGGCGGCGCCAAAGAGCCTACGCCCTGGGCTGGGACAAGGTGGGGCGGCTCCCC
 CAGCTGCCACCGCTCGAACCCGGCGGGACCCCACTACCTCTGCCGGGCCACCACCCTCGCGCC
 CACCGCCACTGCTGGGACCTGGCGGCCAGTGAGGGCAGATGGAAGAGTATAAGGAAGAGCCCTCTCGGG
 GGTGGCGGCGGCTCGGGAGCCTCCAGTCAAGCCGCTGCCTCAAACAGATCCTTCTGCTGCAATTGGACC
 TCATCGAACAGCAGCAGCAGCAGTTCAGGCGCAAGGAGAAGGAGATAGAGGAGCTGAAGTCCGAGAGAGA
 TACGCTCCTTGCTCGGATTGAACGTATGAAAAGGCGGATGCAGCTGGTGAAGAGGGATAACGAGAAGGAA
 AGGCACAAGCTGCTCCAGGGCTATGAACCTGAAGAGAGAGAGGAAGCAGAGTTGTCTGAGAAAATTAAT
 TGGAGCGCCAGCCGGAGCTTTCGAGACCTCCAGGCTCTGCCTTCCAAGCCTTCTCATGTGGCCGGAG
 TGGAAAGGGACACAAAAGGAAAACCCATTTGAAATACAGAAAGAAAGACTCCTGTTAAAAAGCTGGCT
 CCTGAATTTTCAAAGTCAAACAAAAACTCCTAAGCACTCTCCATTAAAGAGGAACCCCTGTGGTTCCA
 TATCAGAAACTGTTTGTAAACGTGAATTGAGGAGCCAAGAAACCCAGAAAAGCCCGGCTTTCAGTGGA
 TACCCCAAGACTCTCGACTCCCAAAAGGGACCCAGCACCCACCCCAAGGAGAAAGCCTTCTCAAGT
 GAGATGGAAGATTTGCCGTACCTTTCCACCACAGAAATGTATTTGTGCTGTTGGCACCCAGCCTCCCCAT
 CACCGTTACCATACGGGAATCCTCTCAAAGAAGGAGGAGACTGTAGCAAGGTGCTGATGCCATCAAG
 TGTTGCAGGAGAACTTCAGTCTGGCTGTTCTTCTTGGAGGGACCACTCAGTAGGCCTTAAGGGAC
 CCAATCCTTCAGACATTTGGAGAACCTGGATGACAGTGTATTTTCAAAGAGGCATGCAAACTGGAGC
 TAGACGAGAAGAGGAGAAAACGATGGGATTCAGAGGATCAGGGAACAAAGATTTTACAGCGACTGCA
 GCTCAGAAATGATAAAAAGAAAGGAATTCAGGAATCTGAGCCTGAGGTTACCTCATTTTTCCCTGAGCCA
 GATGATGTTGAAAGTTTGTCTGATTACCCCTTCTTGCCTGTTGTAGCATTGGACGGCCATTGCCAAAAT
 TAGCTCCACAGAACTTTGAACTACCCTGGTTGGATGAGCGAAGCCGTTGCAGGTTGGAGATCCAGAAGAA
 GCACACACCTCACCGACCTGTAGGAAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028722

Insert Size: 1851 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:

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_028722.2](#), [NP_082998.2](#)

RefSeq Size: 4358 bp

RefSeq ORF: 1851 bp

Locus ID: 74026

UniProt ID: [Q6PDM1](#)

Cytogenetics: 11 D

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.