

## Product datasheet for **MC219204**

### **Msl2 (NM\_001100451) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Msl2 (NM_001100451) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Msl2
Synonyms:	E130103E02Rik; Msl2l1; Rnf184
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219204 representing NM\_001100451  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCCGGTGAATGCTACTGCTCTACATTTCCGCGAGCCGCTAGTGCTCAACTACGACCCCGGAG  
 ACCCCAAGGCGTTTACAGAGATTAACAGGCTCTTGCCCTTACTTCCGACAGTCCCTCTCGTCTGTGTTG  
 CGGACATTTGCTTCAAGATCCTATTGCACCCACCAACTCCACCTGCCAACACTATGTCTGCAAACTTGT  
 AAAGGCAAGAAAATGATGATGAAACCTTCATGTAGCTGGTGCAAAGACTATGAGCAGTTTGGAGAGAACA  
 AGCAGTTAAGCATCCTAGTGAATTGCTACAAGAACTGTGTGAATATAAACCAGACGACACTGGCAGC  
 GGATATAATAGAAGCAGTTGACTGTTCTTCTGATATTTTGGCTTTGCTTAATGACGGATCATTGTTTTGT  
 GAGGAGACCGAGAAACCTTCAGATTCATCCTTCACTCTGTGTTGACACATTCCTTTACCTTCAACT  
 CAGAACCACAGCTGATCCTCAAGCTAGCTTATCTCCAATGTCTGAGAGTACCCTCAGCATTGCCATTGG  
 CAGTTCTGTTATCAATGGTTTGCCTACTTACAATGGGCTTCAATAGATAGATTTGGTATAAATATCCCT  
 TCACCTGAACATCCAATACAATTGACGTGTGTAATACTGTTGATATAAAAAGTGGATCTGTCTGACA  
 ACCTGCCACCTGTCTGTGACACGGTAGCCACTGACTTGTGCTCCACAGGTATTGATATCTGTAGTTTCAG  
 TGAAGATATAAACCCCGGTGACTCTTTTTGCTGAGTGTGAGGAAGTACTCCGCAGCTTAGAACTGTT  
 TCAAATACAGAAGTTTGTGCTCCTAATTTGAGCCAAACTTGGAAAGCCACTGTATCCAATGGACCTTTT  
 TGCAGCTTTCTTCCAGTCTCTTAGCCATAATGTTTTTCAATGTCCACCAGCCCTGCACTTCATGGTTATC  
 ATGTACAGCAGCAACTCCAAGGTAGCAAAGTTGAATCGAAAACGATCCAGATCTGAAAGTGACAGTGAG  
 AAAGTTCAGCCACTTCCAATTTCTACCATTATCCGAGGCCAACACTGGGGGCATCTGCTCCTGTGACTG  
 TGAAGCGGGAAGCAAAATCTCTTCAACCTATAGCAACTGTTCCCAATGGAGGCACGACACCCAAGAT  
 CAGCAAGACTGTACTTTTATCTACTAAAAGCATGAAAAGAGTCATGAACATGGATCCAAGAAATCTCAC  
 TCTAAATCCAAGCCAGGTATTCTTAAAAAGACAAAGCAGTAAAGGAAAAGATGCCTAGTCATATTTTA  
 TGCCAGGAAGCCCTACCAAGACTGTGTACAAAAAGCCCAAGAAAAGAAAGGATGTAATGTGGCGTGC  
 TACTCAAATCCAAGTGTCTTACATGCCGCGGCCAACGCTGCCCTTGCTACTCTAACCGAAAAGCTGC  
 TTAGATTGTATATGTCGTGGCTGCCAAACTCCTATATGGCCAATGGGGAGAAGAAGCTGGAGGCATTTG  
 CGGTGCCAGAAAAGCCCTGGAGCAGACCAGGCTCACTTGGGCATTAATGTGACTAGCATTGCTGTGCG  
 TAACGCAAGTACCAGCACCAGTGAATTAATGTCACAGGGTCCCCTGTAACGACATTTTTGGCTGCCAGT  
 ACACATGATGATAAAAGTTTGGATGAAGCTATAGATATGAGATTCGACTGT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001100451

**Insert Size:** 1734 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\\_001100451.2](#), [NP\\_001093921.1](#)

**RefSeq Size:** 4899 bp

**RefSeq ORF:** 1734 bp

**Locus ID:** 77853

**UniProt ID:** [Q69ZF8](#)

**Cytogenetics:** 9 E4

**Gene Summary:** Component of histone acetyltransferase complex responsible for the majority of histone H4 acetylation at lysine 16 which is implicated in the formation of higher-order chromatin structure (By similarity). Acts as an E3 ubiquitin ligase that promotes monoubiquitination of histone H2B at 'Lys-35' (H2BK34Ub), but not that of H2A. This activity is greatly enhanced by heterodimerization with MSL1. H2B ubiquitination 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 (By similarity).[UniProtKB/Swiss-Prot Function]