

Product datasheet for **MR216585**

Msl2 (NM_001100451) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Msl2 (NM_001100451) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR216585 representing NM_001100451
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAACCCGGTGAATGCTACTGCTCTACATTTCCGCGAGCCGCTAGTGCTCAACTACGACCCCGGAG
 ACCCAAGGCGTTTACAGAGATTAACAGGCTCTTGCCCTTACTCCGACAGTCCCTCTCGTCTGTGTTG
 CGGACATTTGCTTCAAGATCCTATTGCACCCACCAACTCCACCTGCCAACACTATGTCTGCAAACTTGT
 AAAGGCAAGAAAATGATGATGAAACCTTCATGTAGCTGGTGCAAAGACTATGAGCAGTTTGGAGAGAACA
 AGCAGTTAAGCATCCTAGTGAATTGCTACAAGAACTGTGTGAATATAAACCAGACGACACTGGCAGC
 GGATATAATAGAAGCAGTTGACTGTTCTTCTGATATTTGGCTTTGCTTAATGACGGATCATTGTTTTGT
 GAGGAGACCGAGAAACCTTCAGATTCATCCTTCACTCTGTGTTGACACATCCCTTTACCTTCAACT
 CAGAACCACAGCTGATCCTCAAGCTAGCTTATCTCCAATGTCTGAGAGTACCCTCAGCATTGCCATTGG
 CAGTTCTGTTATCAATGGTTTGCCTACTTACAATGGGCTTCAATAGATAGATTTGGTATAAATACCTT
 TCACCTGAACATCCAATACAATTGACGTGTGTAATACTGTTGATATAAAAAGTGGATCTGTCTGACA
 ACCTGCCACCTGTCTGTGACACGGTAGCCACTGACTTGTGCTCCACAGGTATTGATATCTGTAGTTTCAG
 TGAAGATATAAACCCGGTGACTCTTTTTGCTGAGTGTGAGGAAGTACTCCGCAGCTTAGAACTGTT
 TCAAATACAGAAGTTTGTGCTCCTAATTTGAGCCAAACTTGAAGCCACTGTATCCAATGGACCTTTTT
 TGCAGCTTTCTCCAGTCTCTTAGCCATAATGTTTTTCAATGTCACCAGCCCTGCACTTCATGGTTATC
 ATGTACAGCAGCAACTCCAAGGTAGCAAAGTTGAATCGAAAACGATCCAGATCTGAAAGTGACAGTGAG
 AAAGTTCAGCCACTTCCAATTTCTACCATTATCCGAGGCCAACACTGGGGGCATCTGCTCCTGTGACTG
 TGAAGCGGGAAAGCAAAATCTCTTCAACCTATAGCAACTGTTCCCAATGGAGGCACGACCCCAAGT
 CAGCAAGACTGTACTTTTATCTACTAAAAGCATGAAAAGAGTCATGAACATGGATCCAAGAAATCTCAC
 TCTAAATCCAAGCCAGGTATTCTTAAAAAGACAAAGCAGTAAAGGAAAAGATGCCTAGTCATATTTTA
 TGCCAGGAAGCCCTACCAAGACTGTGTACAAAAAGCCCAAGAAAAGAAAGGATGTAATGTGGCGTGC
 TACTCAAATCCAAGTGTCTTACATGCCGCGGCCAACGCTGCCCTTGCTACTCTAACCGGAAAAGCTGC
 TTAGATTGTATATGTCGTGGCTGCCAAACTCCTATATGGCCAATGGGGAGAAGAAGCTGGAGGCATTTG
 CGGTGCCAGAAAAGCCCTTGGAGCAGACCAGGCTCACTTGGGCATTAATGTGACTAGCATTGCTGTGCG
 TAACGCAAGTACCAGCACCAGTGAATTAATGTACAGGGTCCCCTGTAACGACATTTTGGCTGCCAGT
 ACACATGATGATAAAAGTTGGATGAAGCTATAGATATGAGATTCGACTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216585 representing NM_001100451
 Red=Cloning site Green=Tags(s)

MNPVNATALYISASRLVLNYDPGDPKAFTEINRLLPYFRQSLSCCVCGHLLQDPIAPTNSTCQHVVCKTC
 KGKKMMMPSCSWCKDYEQFEENKQLSILVNCYKKLCEYITQTTLARDIEAVDCSSDILALLNDGSLFC
 EETEKPSDSSFTLCLTHSPLPSTSEPTADPQASLSPMSESTLSIAIGSSVINGLPTYNGLSIDRFGINIP
 SPEHPNTIDVCNTVDIKTEDLSDNLPPVCDTVATDLCTGIDICSFSEDIKPGDSLILLSVEEVLRSLET
 SNTEVCCPNLQPNLEATVSNPFLQLSSQSLSHNVFMSTSPALHGLSCTAATPKVAKLNRKRSRSESDSE
 KVQPLPISTIIRGPTLGASAPVTVKRESKISLQPIATVPNGGTPKISKTVLLSTKSMKKSHEHGSKKSH
 SKSKPGILKKDKAVKEKMPSHHFMPGSPTKTVYKKPQEKKGCKGRATQNPVSLTCRGRQPCYSNRKAC
 LDCICRGQNSYMANGEKKLEAFVPEKALEQTRLTLGINVTSIAVRNASTSTSVINVTGSPVTTFLAAS
 THDDKSLDEAIDMRFDC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9034_e04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001100451

ORF Size: 1731 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.

RefSeq: [NM_001100451.2](#), [NP_001093921.1](#)

RefSeq Size: 4934 bp

RefSeq ORF: 1734 bp

Locus ID: 77853

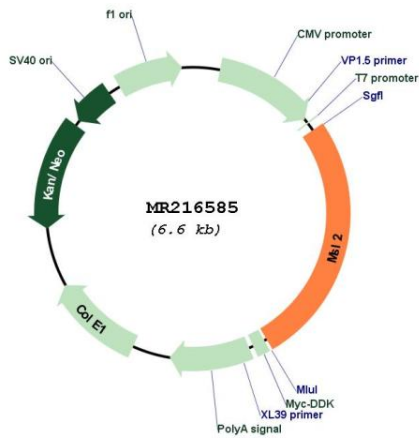
UniProt ID: [Q69ZF8](#)

Cytogenetics: 9 E4

MW: 63 kDa

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]

Product images:



Circular map for MR216585