

Product datasheet for **MG216585**

Msl2 (NM_001100451) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Msl2
Synonyms:	E130103E02Rik; Msl2l1; Rnf184
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >MG216585 representing NM_001100451
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAACCCGGTGAATGCTACTGCTCTACATTTCCGCGAGCCGCCTAGTGCTCAACTACGACCCCGGAG
 ACCCCAAGGCGTTTACAGAGATTAACAGGCTCTTGCCTTACTTCCGACAGTCCCTCTCGTGTGTTTTG
 CGGACATTTGCTTCAAGATCCTATTGCACCACCAACTCCACCTGCCAACACTATGTCTGAAAACTTGT
 AAAGGCAAGAAAAATGATGATGAAACCTTCAATGTAGCTGGTCAAAGACTATGAGCAGTTTGGAGAGAACA
 AGCAGTTAAGCATCCTAGTGAATTGCTACAAGAACTGTGTAATATAACCCAGACGACACTGGCAGC
 GGATATAATAGAAGCAGTTGACTGTTCTTCTGATATTTGGCTTTGCTTAATGACGGATCATTGTTTTGT
 GAGGAGACCGAGAAACCTTCAAGTTCATCCTTCACTCTGTGTTTGACACATTCCCTTTACCTTCAACT
 CAGAACCACAGCTGATCCTCAAGTAGCTTATCTCCAATGTCTGAGAGTACCCTCAGCATTGCCATTGG
 CAGTTCTGTATCAATGGTTTGCCTACTTACAATGGGCTTTCAATAGATAGATTTGGTATAAATATCCCT
 TCACCTGAACATCCAAATACAATTGACGTGTAACTGTTGATATAAAAACTGAGGATCTGTCTGACA
 ACCTGCCACCTGTCTGTGACACGGTAGCCACTGACTTGTGCTCCACAGGTATTGATATCTGTAGTTTCAG
 TGAAGATATAAAACCCGGTACTCTTTTTGCTGAGTGTGAGGAAGTACTCCGAGCTTAGAACTGTT
 TCAAAATACAGAAGTTTGTCTCCTAATTTGCAGCCAACTTGAAGCCACTGTATCCAATGGACCTTTTT
 TGCAGCTTTCTCCAGTCTTAGCCATAATGTTTTCATGTCCACAGCCCTGCACTTCATGGGTTATC
 ATGTACAGCAGCAACTCCCAAGGTAGCAAAGTTGAATCGAAAACGATCCAGATCTGAAAAGTACAGTGAG
 AAAGTTCAGCCACTTCCAATTTCTACCATTATCCGAGGCCAACACTGGGGCATCTGCTCTGTGACTG
 TGAAGCGGAAAGCAAATCTCTTCAACCTATAGCAACTGTTCCCAATGGAGGCAGACACCCAAGAT
 CAGCAAGACTGTACTTTTACTACTAAAAGCATGAAAAGAGTCAATGAACATGGATCCAAGAAATCTCAC
 TCTAAATCCAAGCCAGGTATTCTAAAAAGACAAAGCAGTAAAGGAAAAGATGCCTAGTCACTATTTTA
 TGCCAGGAAGCCCTACCAAGACTGTGTACAAAAAGCCAGAAAAGAAAGGATGTAATGTGGGCGTGC
 TACTCAAAATCCAAGTGTCTTACATGCCCGGCCAACGCTGCCCTTGTACTTAACCGAAAAGCCTGC
 TTAGATTGTATATGCTGGCTGCCAAAACCTCCTATATGGCCAATGGGGAGAAAGCTGGAGGCATTGG
 CGGTGCCAGAAAAGCCTTGGAGCAGACCAGGCTCACTTTGGGCATTAATGTGACTAGCATTGCTGTGCG
 TAACGCAAGTACCAGCACCAGTGAATTAATGTCACAGGTCCTGTAACGACATTTTGGCTGCCAGT
 ACACATGATGATAAAGTTGGATGAAGCTATAGATATGAGATTGACTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216585 representing NM_001100451
 Red=Cloning site Green=Tags(s)

MNPVNATALYISASRLVLNYDPGDPKAFTEINRLLPYFRQSLSCCVGHLLQDPIAPTNSTCQHYYCKTC
 KGKMMMPSCSWCKDYEQFEENKQLSILVNCYKKLCEYITQTTLARDIEAVDCSSDILALLNDGSLFC
 EETEKPSSSFTLCLTHSPLPSTSEPTADPQASLSPMSESTLSIAIGSSVINGLPTYNGLSIDRFGINIP
 SPEHPNTIDVNCNTVDIKTEDLSDNLPVCDTVATDLCTGIDICSFSEDIKPGDSLILLSVEEVLRSLET
 SNTTEVCCPNLQPNLEATVSNPFLQLSSQSLSHNVFMSTSPALHGLSCTAATPKVAKLNRKRSRSESSE
 KVQPLPISTIIRGPTLGASAPVTVKRESKISLQPIATVPNGGTPKISKTVLLSTKSMKKSHEHGSKSH
 SKSKPGILKDKAVKEKMPSHHFMPGSPTKTVYKPKQEKKGCKGRATQNPVSLTCRGQRCPYSNRKAC
 LDCICRGCQNSYMANGEKKLEAFVPEKALEQTRLTLGINVTIAVRNASTSTSVINVTGSPVTTFLAAS
 THDDKSLDEAIDMRFDC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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.

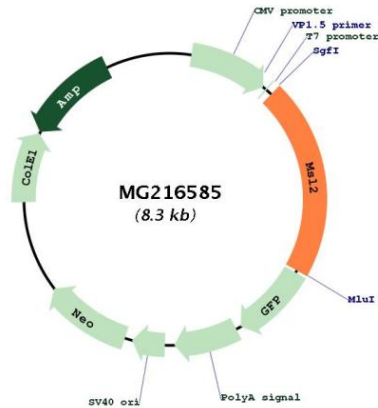
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

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

RefSeq Size: 4934 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]

Product images:



Circular map for MG216585