

## Product datasheet for **RG210829**

### **MSL2L1 (MSL2) (NM\_018133) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MSL2L1 (MSL2) (NM_018133) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MSL2L1
Synonyms:	MSL-2; 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:**

>RG210829 representing NM\_018133  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAACCCCGTGAATGCTACTGCTCTACATTTCCGCGAGCCGCTAGTGCTCAACTACGACCCCGGAG  
 ACCCCAAGGCGTTTACTGAGATTAACAGGCTCTTGCCTTACTCCGACAGTCCCTTCGCTGTGTTT  
 CGGACATTTGCTACAAGATCCTATTGCACCCACCAACTCCACCTGCCAACATTATGTCTGCAAACTTGT  
 AAAGGCAAGAAAATGATGATGAAACCTTCTGTAGCTGGTCAAAGACTATGAGCAGTTTGGAGAAAACA  
 AGCAGTTAAGCATCCTAGTGAAGTCTACAAAAAACTATGCGAGTATAAACACAGACTACACTGGCAGC  
 GGATATAATAGAAGCAGTTGACTGTTCTTCTGATATTTTGGCTTTGCTTAATGATGGATCATTGTTTTGT  
 GAGGAGACAGAAAACCCTCAGATTCATCTTTACTTTGTGTTGACACATTCCTTTACCTTCAACCT  
 CAGAACCACAAGTATCCTCAAGCTAGTTTATCTCCAATGTCTGAAAGCACCTCAGCATTGCTATTGG  
 CAGTTCTGTTATCAATGGTTTGCCTACTTATAATGGGCTTCAATAGATAGATTTGGTATAAATATTCT  
 TCACCTGAACATTCAAATACGATTGACGTATGTAATACTGTTGACATAAAAACTGAGGATCTGTCTGACA  
 GCCTGCCACCCGTTTGTGACACAGTAGCCACTGACTTATGTTCCACAGGCATTGATATCTGCAGTTTCAG  
 TGAAGATATAAACCTGGAGACTCTCTGTTACTGAGTGTGAGGAAGTACTCCGCAGCTTAGAAAAGTGT  
 TCAAAATACAGAGGCTGTTGCCCTAATTTGCAGCCGAAGTTGGAAGCCACTGTATCCAATGGACCTTTTC  
 TGCAGCTTTCTCCAGTCTCTTAGCCATAATGTTTTATGTCCACCAGTCTGCCTTCATGGGTTATC  
 ATGTACAGCAGCAACTCCGAAGTAGCAAAATGGAATAGAAAACGATCCAGATCAGAGAGTGACAGTGAG  
 AAAGTTCAGCCACTTCCAATTTCTACCATTATCCGAGGCCAACACTGGGGGCATCTGCTCTGTGACAG  
 TGAACCGGGAGAGCAAAATTTCTCTTCAACCTATAGCAACTGTTCCCAATGGAGGCACAACACATAAA  
 CAGCAAAACTGTACTTTTATCTACTAAAAGCATGAAAAAGAGTCATGAACATGGATCCAAGAAATCTCAC  
 TCTAAAACCAAGCCAGGTATTCTTAAAAAGACAAAGCAGTAAAGGAAAAGATTCTAGTCATCATTTTA  
 TGCCAGGAAGTCTACCAAGACTGTGTACAAAAAACCCAGGAAAAGAAAGGGTGTAAATGTGGCGTGC  
 TACTCAAATCCAAGTGTCTTACATGCCGAGGCCAACGCTGCCCTTGCTACTCTAACCGCAAAGCTGC  
 TTAGATTGTATATGTCGTGGCTGCCAAACTCTATATGGCCAATGGGGAGAAGAAGCTGGAGGCATTTG  
 CCGTGCCAGAAAAGCCCTGGAGCAGACCAGGCTCACTTTGGGCATTACGTGACTAGCATTGCTGTGCG  
 TAACGCTAGTACCAGCACCAGTGAATAAATGTCACAGGGTCCCCAGTAAACGACGTTTTTAGCTGCCAGT  
 ACACATGATGATAAAAGTTGGATGAAGCTATAGACATGAGATTCGACTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG210829 representing NM\_018133  
 Red=Cloning site Green=Tags(s)

MNPVNATALYISASRLVLYDPGDPKAFTEINRLLPYFRQSLSCCVCGHLLQDPIAPTNSTCQHIVCKTC  
 KGKMMMPKSCSWCKDYEQFEENKQLSILVNCYKLCYITQTLARDIEAVDCSSDILALLNDGSLFC  
 EETEKPSDSSFTLCLTHSPLPSTSEPTDTPQASLSPMSESTLSIAIGSSVINGLPTYNGLSIDRFGINIP  
 SPEHSNTIDVCNTVDIKTEDLSDSLPPVCDTVDLCLSTGIDICSFSEDIKPGDLSLLSVEEVLRSLET  
 SNTEVCCPNLQPNLEATVSNPFLQLSSQSLSHNVFMSTSPALHGLSCTAATPKIAKLNKRSRSESDSE  
 KVQPLPISTIIRGPTLGASAPVTVKRESKISLQPIATVPNGGTPKISKTVLLSTKSMKKSHEHGSKSH  
 SKTKPGILKDKAVKEKIPSHHFMPGSPKTVYKPKQEKKGCKGRATQNPVLTCTCRGQRCPCYSNRKAC  
 LDCICRGQNSYMANGKLEAFVPEKALEQTRLTLGINVTSIAVRNASTSTSVINVTGSPVTTFLAAS  
 THDDKSLDEAIDMRFD

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_018133

**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\\_018133.4](#)

**RefSeq Size:** 4696 bp

**RefSeq ORF:** 1734 bp

**Locus ID:** 55167

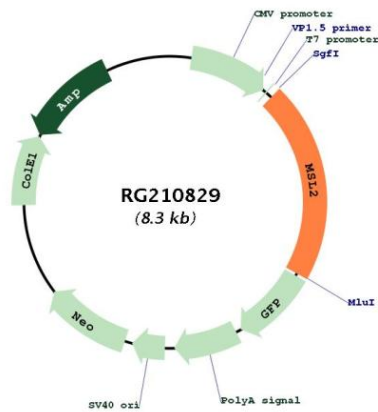
**UniProt ID:** [Q9HCI7](#)

**Cytogenetics:** 3q22.3

**Protein Families:** Druggable Genome

**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. 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-4' (H3K4me) and 'Lys-79' (H3K79me) and leads to gene activation, including that of HOXA9 and MEIS1.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG210829