

## Product datasheet for **RC231282**

### **MSL3L1 (MSL3) (NM\_001193270) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MSL3L1 (MSL3) (NM_001193270) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MSL3L1
Synonyms:	MRSXBA; MRXS36; MRXSBA; MSL3L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC231282 representing NM\_001193270  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTCCTTCTGTGCGGCTGGTGCCGGGTGGGCTCCTGTGGGACGCCCTGGCCGTCCGATCCAGATTG  
 TTGATGTTATTGTTGGGAAAGACGAAAAAGGCAGAAAGATCCCAGAATATCTGATCCATTTAATGGTTG  
 GAACAGAAGCTGGGATAGATGGGACGAGAAGATCATGTCTTCGTGATACCGATGAAAAATCGTAGATTA  
 CAGCGTAAATTGGCAAGAAAAGCTGTAGCTCGCCTGAGGAGCACAGGAAGAAAGAAGCGCTGCAGGT  
 TGCCTGGTGTGGACTCTGTCTTAAAAGGCTCCCACTGAAGAAAAAGATGAAAAATGATAAACTCATT  
 AAGCAGTTCCTCTGACTGTAGTAAAAACAAGGATGAAGAAATAAGTGAAGAAAGTATTTGAAGAAAAAG  
 ACTGAAGTGAAGAAGAACCAGAGCTTCAAACAAGAAGGAAATGGAAGAAAGAACAATAACTATAGAAA  
 TCCCTGAAGTTCTGAAGAAGCAGCTGGAGGATGATTGTTACTACATTAACAGGAGGAAACGGTTAGTGAA  
 ACTTCCATGCCAGACCAACATCATAACGATTTTGAATCCTATGTGAAGCATTGCTATCAATGCAGCC  
 TTTTCAGCCAATGAGAGGCTCGTCACCATCACGTTATGCCACATGCCAACATGAACGTGCATTATATCC  
 CAGCAGAAAAAGATGTTGACCTTTGTAAGGAGATGGTGGATGGATTAAGAATAACCTTTGATTACACTCT  
 CCCGTTGGTTTTACTCTATCCATATGAACAAGCTCAGTATAAAAAGGTGACTTCGTCTAAATTTTTTCTT  
 CCAATTAAGGAAAGTGCCACAAGCACTAACAGGAGCCAGGAGAACTCTCTCCAGTCCGCCCTTGTGTA  
 ATCCATCCACGCCACAGTCCACAGAGAGTCAGCCGACCACCGGTGAACCAGCCACCCCAAAAGGCGCAA  
 AGCTGAGCCAGAAGCATTGCAGTCTCTGAGGCGGTCCACGCGCCACAGTGCCAACTGTGACAGGCTTTCT  
 GAGAGCAGCGCTTCACTCAGCCCAAGCGCCGGCAGCAGGACACATCCGCCAGCATGCCCAAGCTTCTCC  
 TGCACCTGAAAAAGAAGACACCTGTGCATAGCAGATCATCTTACCTATTCCTCTGACTCCTAGCAAGGA  
 AGGGAGTGTCTGTGTTGCTGGCTTTGAAGGGAGAAGAATAATGAAATAAACGAGGTCTCTCTGGAAG  
 CTTGTGCCTGACAATTACCCCCAGGTGACCAGCCGCTCCACCTCTTACATTTATGGGCACAACATT  
 TGCTGCGATTGTTGTGAAACTCCAGAAATCCTTGAAAGATGTCTTTTCTGAGAAGAACTGAAGGC  
 TTTATTGAAGCACTTTGATCTCTTTTGGAGTTTTAGCAGAATACCACGATGACTTCTCCAGAGTCCG  
 GCTTATGTCGCTGCTGTGAGGCACATTACAGCACCAAGAACCCCGGGCAATTTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC231282 representing NM\_001193270  
 Red=Cloning site Green=Tags(s)

MSPSVRPGAGWAPVGRGRPIQIVDVIIVGKDEKGRKIPEYL IHFNGWNRSWDRWAAEDHVL RDTDENRRL  
 QRKLARKAVARLRSTGRKKKRCRLPGVDSVLKGLPTEEKDENDENSLSSSDCSENKDEEISEESDIEEK  
 TEVKEPELQTRREMEERTITIEIPEVLKKQLEDDCYINRRKRLVKLPCQTNIIITILESYVKHFAINAA  
 FSANERPRHHVMPHANMNVHYIPAENVDLCKEMVDGLRITFDYTLPLVLLYPYEQAQYKVTSSKFFL  
 PIKESATSTNRSQEELSPSPLLNPSTPQSTESQPTTGEPATPKRRKAEPEALQSLRRSTRHSANCDRLS  
 ESSASPQPKRRQDTSASMPKFLHLEKTPVHSRSSSPIPLTPSKEGSAVFAFGEGRRTNEINEVLSWK  
 LVPDNYPGDPQPPPSYIYGAQHLLRFLVKLPEILGKMSFSEKNL KALLKHFDLFLRFLAEYHDDFFPES  
 AYVAACEAHYSTKNPRAIY

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8064\\_c05.zip](https://cdn.origene.com/chromatograms/mk8064_c05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001193270

**ORF Size:** 1527 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\\_001193270.2](#)

**RefSeq ORF:** 1530 bp

**Locus ID:** 10943

**UniProt ID:** [Q8N5Y2](#)

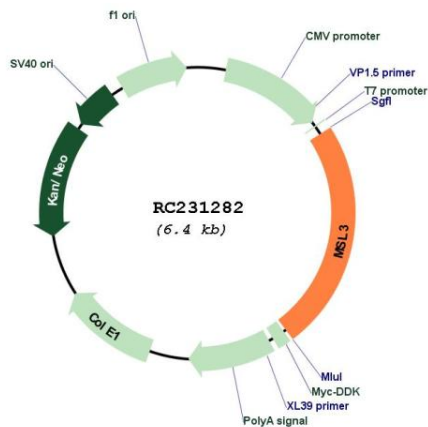
**Cytogenetics:** Xp22.2

**Protein Families:** Transcription Factors

MW: 58.7 kDa

**Gene Summary:** This gene encodes a nuclear protein that is similar to the product of the *Drosophila* male-specific lethal-3 gene. The *Drosophila* protein plays a critical role in a dosage-compensation pathway, which equalizes X-linked gene expression in males and females. Thus, the human protein is thought to play a similar function in chromatin remodeling and transcriptional regulation, and it has been found as part of a complex that is responsible for histone H4 lysine-16 acetylation. This gene can undergo X inactivation. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 2, 7 and 8. [provided by RefSeq, Jul 2010]

### Product images:



Circular map for RC231282