

## Product datasheet for **SC110206**

### **MSL3L1 (MSL3) (NM\_078628) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MSL3L1 (MSL3) (NM_078628) Human Untagged Clone
Tag:	Tag Free
Symbol:	MSL3L1
Synonyms:	MRSXBA; MRXS36; MRXSBA; MSL3L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_078628, the custom clone sequence may differ by one or more nucleotides

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ATGAGCGCGAGCGAGGGCATGAAATTTAAATCCACTCAGGGGAGAAAAGTCTGTGCTTCGAGCCTGACC  
CCACCAAGGCGCGAGTGTGTACGATGCCAAGATTGTTGATGTTATTGTTGGGAAAGACGAAAAAGGCAG  
AAAGATCCCAGAAATATCTGATCCATTTAATGGTTGGAACAGAAGCTGGGATAGATGGGCAGCAGAAGAT  
CATGTGCTTCGTGATACCGATGAAAATCGTAGATTACAGCGTAAATTGGCAAGAAAAGCTGTAGCTCGCC  
TGAGGAGCACAGGAAGAAAGAAGAAGCGCTGCAGGTTGCCTGGTGTGGACTCTGTCTTAAAAGGCCCTCCC  
CACTGAAGAAAAAGATGAAAATGATGAAAACCTATTAAGCAGTTCCTCTGACTGTAGTAAAACAAGGAT  
GAAGAAATAAGTGAAGAAAGTGATATTGAAGAAAAGACTGAAGTGAAGAAAGAACCAGAGCTTCAAACAA  
GAAGGGAAATGGAAGAAAGAACAATAACTATAGAAATCCCTGAAGTTCTGAAGAAGCAGCTGGAGGATGA  
TTGTTACTACATTAACAGGAGGAAACGGTTAGTGAAAACCTCCATGCCAGACCAACATCATAACGATTTTG  
GAATCCTATGTGAAGCATTGCTATCAATGCAGCCTTTTCAGCCAATGAGAGGCCCTCGTACCATCACG  
TTATGCCACATGCCAACATGAACGTGCATTATATCCCAGCAGAAAAGAATGTTGACCTTTGTAAGGAGAT  
GGTGGATGGATTAAGAATAACCTTTGATTACACTCTCCGTTGGTTTTACTCTATCCATATGAACAAGCT  
CAGTATAAAAAGGTGACTTCGTCTAAATTTTTCTTCCAATTAAGGAAAGTGCCACAAGCACTAACAGGA  
GCCAGGAGGAACCTCTCCCAGTCCGCCTTTGTGAATCCATCCAGCCACAGTCCACAGAGAGTCAAGCC  
GACCACCGGTGAACCAGCCACCCCAAAAGGCGCAAAGCTGAGCCAGAAGCATTGCAGTCTTGAGGCGG  
TCCACGCCACAGTGCCAACTGTGACAGGCTTTCTGAGAGCAGCGCTTACCTCAGCCCAAGCGCCGCGC  
AGCAGGACACATCCGCCAGCATGCCAAGCTCTTCTGCACCTGAAAAAGAGTAGTTTCATTCTCGGGTG  
CCCCAGGCCGGGAGAGCCAGCGTGTACTTTGTGTTTGTAGTCCAGGCGCATGGTGCTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_078628 unedited</p> <pre> NGGGTGTTCAAATTTTGTAAACGACTCACTATAGGGCGGCCGCAAATTCGCACGAGGA GCAAATGAGCGCGAGCGAGGGCATGAAATTTAAATTCACCTTCAGGGGAGAAAAGTGTGT GCTTCGAGCCTGACCCCAAGGCGGAGTGCTGTACGATGCCAAGATTGTTGATGTTA TTGTTGGGAAAGACGAAAAAGGCAGAAAAGATCCCAGAATATCTGATCCATTTTAAATGGTT GGAACAGAAGCTGGGATAGATGGGCAGCAGAAGATCATGTGCTTCGTGATACCGATGAAA ATCGTAGATTACAGCGTAAATTGGCAAGAAAAGCTGTAGCTCGCCTGAGGAGCACAGGAA GAAAGAAGAAGCGCTGCAGGTTGCCTGGTGGACTCTGTCTTAAAAGGCCTCCCCACTG AAGAAAAAGATGAAAATGATGAAAACCTATTAAGCAGTTCCTCTGACTGTAGTAAAAACA AGGATGAAGAAAATAGTGAAGAAAAGTGATATTGAAGAAAAGACTGAAGTGAAGAAGAAC CAGAGCTTCAAACAAGAAGGAAATGGAAGAAAAGAACAACTATAGAAATCCCTGAAG TTCTGAAGAAGCAGCTGGAGGATGATTGTTACTACATTAACAGGAGGAAACGGTTAGTGA AACTTCCATGCCAGACCAACATCATAACGATTTTGAATCCTATGTGAAGCATTTTGCTA TCAATGCAGCCTTTTCAGCCAATGAGAGGCCTCGTCACCATCACGTTATGCCACATGCCA CATATGAACGTGCATTATATCCCAGCAGAAAAGAATGTTGACCTTTGTAANGAGATGGTG GATGGATTAAGAATAACCTTGATTACACTCTCCGTTGGTTTACTCTTCCATATGAACAGC TCAGTTTAAAAGTGACTTCGTCTAAATT                     </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_078628 unedited</p> <pre> TATGGACCCGCGGCCGAATCTAGNGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTCAGGGTCCATAAATCAAGTTTTATTGGAATATAGCACACTCATTTTATTACATACT ATCTGTGGCTACTTTTGGAGTTAAGTAGCCTTGACAGACACCATATGGCCACAAAGCCG AAAGTATTTACCCTCTGGCCCTCTGTGGAAATTGACATCTGTTCTATAAAGTAAAAATAC TGGTATTTCAATAATTGCACTTATTTAAAAGATGATTGTCAAGTGTAGGGCTGGAATCCTA ACAATTTTCTCACTTTAGAAACCAAACCCACAGTGTTAAGCATAAAATTACGTACAATT TTGATAATGTTTACAGTAATAGCAGCAACATGATGCTTTAAGAACCTTGACTTCCACCTA TAGAATTGAAGTAATCACAAATGAAGGAACCATGGGAACAAACATCAAACATTCTTTAC CTCGTTTATTTTATTAGTTCTTCTCCCTTCAAAGCCAGCAAACACAGCACTCCCTTCCTT GCTAGGAGTCAGAGGAATAGGTGAAGATGATCTGCTATGCACAGGTGTCTTCCAAGAA AAAGATGAAATTTACCAGCAACTGAATTAAGACTGCCTCAAGACTGTTAAAAACTG CGGAACATAAACTAACTTGGTTCTCAGAAAATACCAACCTTTAACGATNAGACTTTCC TAACAGATAGCAGCTGAATTTTATTTTGTAAAAAAATAAGGAATAAAGCCTGACCTTGC TACATGTGGATGAACCTTAAAGACTATGCTAGTGGAGGGGGCCATCCAAAGGGCCATAC TATGTTTCCTTATTTTAAAACCCGGTGGGCAATCCCAAAGACCAAGCGCTTATGGTT GCCAGAGCTTCAAAGGAAGTGGGAGGATTCTACTGGTTTGGGTTTTCCGGGGGGGGCT GAA                     </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_078628
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_078628.1](#), [NP\\_523352.1](#)

**RefSeq Size:** 3564 bp

**RefSeq ORF:** 1251 bp

**Locus ID:** 10943

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

**Cytogenetics:** Xp22.2

**Domains:** CHROMO

**Protein Families:** Transcription Factors

**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]

Transcript Variant: This variant (4) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (d) has a distinct C-terminus and is 105 aa shorter than isoform a.