

Product datasheet for **RC222303**

MSL3L1 (MSL3) (NM_006800) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSL3L1 (MSL3) (NM_006800) 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:

>RC222303 representing NM_006800
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGCGAGCGAGGGCATGAAATTTAAATCCACTCAGGGGAGAAAGTGTGTCTTCGAGCCTGACC
 CCACCAAGGCGCGAGTGTCTGTACGATGCCAAGATTGTTGATGTTATTGTTGGGAAAGACGAAAAAGGCAG
 AAAGATCCCAGAATATCTGATCCATTTTAAATGGTTGGAACAGAAGCTGGGATAGATGGGCAGCAGAAGAT
 CATGTGCTTCGTGATACCGATGAAAATCGTAGATTACAGCGTAAATGGCAAGAAAAGCTGTAGCTCGCC
 TGAGGAGCACAGGAAGAAAGAAGAAGCGCTGCAGGTTGCCTGGTGTGGACTCTGTCTTAAAAGGCCTCCC
 CACTGAAGAAAAAGATGAAAATGATGAAAACCTATTAAGCAGTTCCTCTGACTGTAGTAAAAACAAGGAT
 GAAGAAAATAAGTGAAGAAAGTATATTGAAGAAAAGACTGAAGTGAAGAAAGAACCAGAGCTTCAAACA
 GAAGGGAAATGGAAGAAAGAACAATAACTATAGAAATCCCTGAAGTCTGAAGAAGCAGCTGGAGGATGA
 TTGTTACTACATTAACAGGAGGAAACGGTTAGTGAACCTCCATGCCAGACCAACATCATAACGATTTTTG
 GAATCCTATGTGAAGCATTTTGCTATCAATGCAGCCTTTTCAGCCAATGAGAGGCCCTCGTCACCATCAGG
 TTATGCCACATGCCAACATGAACGTGCATTATATCCCAGCAGAAAAGAATGTTGACCTTTGTAAGGAGAT
 GGTGGATGGATTAAGAATAACCTTTGATTACACTCTCCGTTGGTTTTACTCTATCCATATGAACAAGCT
 CAGTATAAAAAGGTGACTTCGTCTAAATTTTTTCTTCAAATTAAGGAAAGTGCCACAAGCACTAACAGGA
 GCCAGGAGGAACCTCTCCAGTCCGCCTTTGTTGAATCCATCCACGCCACAGTCCACAGAGAGTCAGCC
 GACCACCGGTGAACCAGCCACCCCAAAAGGCGCAAGCTGAGCCAGAAGCATTGCAGTCTCTGAGGCGG
 TCCACGCGCCACAGTGCCAACTGTGACAGGCTTCTGAGAGCAGCGCTTACCTCAGCCAAAGCGCCGGC
 AGCAGGACACATCCGCCAGCATGCCAAGCTCTTCTGCACCTGGAAAAGAAGACACCTGTGCATAGCAG
 ATCATCTTACCTATTCCCTGACTCCTAGCAAGGAAGGAGTGTGTGTTTGTGGCTTTGAAGGGAGA
 AGAACTAATGAAATAAACGAGGTCTCTCTGGAAGCTTGTGCCTGACAATTACCCCCAGGTGACCAGC
 CGCTCCACCCTTACATTTATGGGGACAACATTTGCTGCGATTGTTTGTGAAACTTCCAGAAATCCT
 TGGAAAGATGTCTTTTCTGAGAAGATCTGAAGGCTTTATTGAAGCACTTTGATCTCTTTTTGAGGTTT
 TTAGCAGAATACCAGATGACTTCTTCCAGAGTCGGCTTATGTCGCTGCCTGTGAGGCACATTACAGCA
 CCAAGAACCCCGGCAATTTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222303 representing NM_006800
 Red=Cloning site Green=Tags(s)

MSASEGMKFKFHSGEKVLCFEPDPTKARVLYDAKIVDVIIVGKDEKGRKIPEYLIHFNGWNRSWDRWAAED
 HVLRTDENRRLQRKLARKAVARLRSTGRKKRCRLPGVDSVLKGLPTEEKDENDENSLSSSDCSENKD
 EEISEESDIEEKTEVKEPELQTRREMEERTITIEIPEVLKQLEDDCYINRRKRLVKLPCQTNIITIL
 ESYVKHFAINAASFANERPRHHVMPHANMNVHYIPAENVDLCKEMVDGLRITFDYTLPLVLLYPYEQA
 QYKKVTSKFFLPIKESATSTNRSQEELSPSPLLNPSTPQSTESQPTTGEPATPKRRAEPEALQSLRR
 STRHSANCDRLSESSASPQPKRRQDTSASMPKFLHLEKKTVPVHSRSSPIPLTPSKEGSAVFAGFEGR
 RTNEINEVL SWKLVDPNYPGDQPPPPSYIYGAQHLLRLFVKLPEILGKMSFSEKNLKALLKHFDFLRF
 LAEYHDDFFPESAYVAACEAHYSTKNPRAIY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1744_f09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_006800

ORF Size: 1563 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_006800.1](#)

RefSeq Size: 2305 bp

RefSeq ORF: 1068 bp

Locus ID: 10943

UniProt ID: [Q8N5Y2](#)

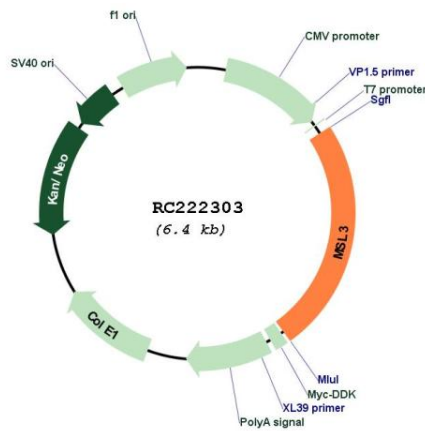
Cytogenetics: Xp22.2

Protein Families: Transcription Factors

MW: 59.82 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 RC222303