

Product datasheet for **RG231282**

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:	TurboGFP
Symbol:	MSL3L1
Synonyms:	MRSXBA; MRXS36; MRXSBA; MSL3L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231282 representing NM_001193270
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTCCTTCTGTGCGGCTGGTGCCGGGTGGGCTCCTGTGGGACGCCCTGGCCGTCCGATCCAGATTG
 TTGATGTTATTGTTGGGAAAGACGAAAAAGGCAGAAAGATCCCAGAATATCTGATCCATTTAATGGTTG
 GAACAGAAGCTGGGATAGATGGGACGAGAAGATCATGTCTTCGTGATACCGATGAAAAATCGTAGATTA
 CAGCGTAAATTGGCAAGAAAAGCTGTAGCTCGCCTGAGGAGCACAGGAAGAAAGAAGCGCTGCAGGT
 TGCCTGGTGTGGACTCTGTCTTAAAAGCCTCCCCACTGAAGAAAAAGATGAAAAATGATAAACTCATT
 AAGCAGTTCCTCTGACTGTAGTAAAAACAAGGATGAAGAAATAAGTGAAGAAAGTATTTGAAGAAAAG
 ACTGAAGTGAAGAAGAACCAGAGCTTCAAACAAGAAGGAAATGGAAGAAAGAACAATAACTATAGAAA
 TCCCTGAAGTTCTGAAGAAGCAGCTGGAGGATGATTGTTACTACATTAACAGGAGGAAACGGTTAGTGAA
 ACTTCCATGCCAGACCAACATCATAACGATTTTGAATCCTATGTGAAGCATTTCCTATCAATGCAGCC
 TTTTCAGCCAATGAGAGGCTCGTCACCATCACGTTATGCCACATGCCAACATGAACGTGCATTATATCC
 CAGCAGAAAAAGATGTTGACCTTTGTAAGGAGATGGTGGATGGATTAAGAATAACCTTTGATTACACTCT
 CCCGTTGGTTTTACTCTATCCATATGAACAAGCTCAGTATAAAAAGGTGACTTCGTCTAAATTTTTTCTT
 CCAATTAAGGAAAGTGCCACAAGCACTAACAGGAGCCAGGAGGAACTCTCTCCAGTCCGCCCTTGTGTA
 ATCCATCCACGCCACAGTCCACAGAGAGTCAGCCGACCACCGGTGAACCAGCCACCCCAAAAGGCGCAA
 AGCTGAGCCAGAAGCATTGCAGTCTCTGAGGCGGTCCACGCGCCACAGTGCCAACTGTGACAGGCTTTCT
 GAGAGCAGCGCTTCACTCAGCCCAAGCGCCGGCAGCAGGACACATCCGCCAGCATGCCAAAGCTCTTCC
 TGCACCTGAAAAAGAAGACACCTGTGCATAGCAGATCATCTTACCTATTCCTCTGACTCCTAGCAAGGA
 AGGGAGTGTGTGTTGCTGGCTTTGAAGGGAGAAGAATAATGAAATAAACGAGGTCTCTCTGGAAG
 CTTGTGCCTGACAATTACCCCCAGGTGACCAGCCGCTCCACCTCTTACATTTATGGGCACAACATT
 TGCTGCGATTGTTGTGAAACTCCAGAAATCCTTGAAAGATGTCTTTTCTGAGAAGAACTGAAGGC
 TTTATTGAAGCACTTTGATCTCTTTTGGAGTTTTAGCAGAATACCACGATGACTTCTCCAGAGTCG
 GCTTATGTCGCTGCTGTGAGGCACATTACAGCACCAAGAACCCCGGGCAATTTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231282 representing NM_001193270
 Red=Cloning site Green=Tags(s)

MSPSVRPGAGWAPVGRPRPIQIVDVIIVGKDEKGRKIPEYLIHFNWNRSDRWAAEDHVLRTDENRRL
 QRKLARKAVARLRSTGRKKKRCRLPGVDSVLKGLPTEEKDENDENSLSSSSDCSENKDEEISEESDIEEK
 TEVKEPELQTRREMEERTITIEIPEVLKKQLEDDCYINRRKRLVKLPCQTNIIITILESYVKHFAINAA
 FSANERPRHHVMPHANMNVHYIPAENVDLCKEMVDGLRITFDYTLPLVLLYPYEQAYKKVTSKFFL
 PIKESATSTNRSQEELSPSPLLNPSTPQSTESQPTTGEPATPKRRKAEPEALQSLRRSTRHSANCDRLS
 ESSASPQPKRRQDTSAMPKFLHLEKTPVHSRSSSPIPLTPSKEGSAVFAFEGRRTNEINEVLSWK
 LVPDNYPPGDQPPPPSYIYGAQHLLRFLVKLPEILGKMSFSEKNLKALLKHFDFLFLFLAEYHDDFFPES
 AYVAACEAHYSTKNPRAIY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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 Size: 2337 bp

RefSeq ORF: 1530 bp

Locus ID: 10943

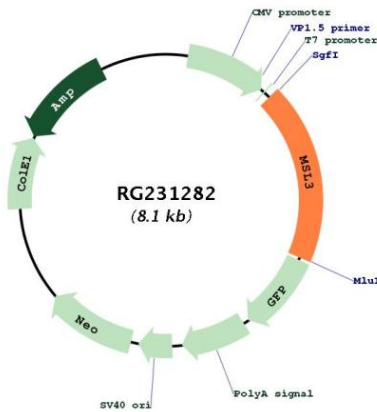
UniProt ID: [Q8N5Y2](#)

Cytogenetics: Xp22.2

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]

Product images:



Circular map for RG231282