

Product datasheet for **RC226663**

MSL2L1 (MSL2) (NM_001145417) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSL2L1 (MSL2) (NM_001145417) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MSL2L1
Synonyms:	MSL-2; MSL2L1; RNF184
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226663 representing NM_001145417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACCCCGTGAATGCTACTGCTCTACATTTCCGCGAGCCGCTAGTGCTCAACTACGACCCCGGAG
 ACCCAAGGCGTTTACTGAGATTAACAGGCTCTTGCCTTACTCCGACAGTCCCTTTCGTCTGTGTTT
 CGGACATTTGCTACAAGATCCTATTGCACCCACCAACTCCACCTGCCAACATTATGTCTGCAAAACTTGT
 AAAGGCAAGAAAATGATGATGAAACCTTCTGTAGCTGGTCAAAGACTATGAGCAGTTTGGAGAAAACA
 AGCAGTTAAGCATCCTAGTGAAGTCTACAAAAAACTATGCGAGTATAAACACAGACTACACTGGCAGC
 GGATATAATAGAAGCAGTTGACTGTTCTTCTGATATTTTGGCTTTGCTTAATGATGGATCATTGTTTTGT
 GAGGAGACAGAAAACCCTCAGATTCATCTTTACTTTGTGTTGACACATTCCTTTACCTTCAACCT
 CAGAACCACAAGTATCCTCAAGCTAGTTTATCTCCAATGTCTGAAAGCACCTCAGCATTGCTATTGG
 CAGTTCTGTTATCAATGGTTTGCCTACTTATAATGGGCTTCAATAGATAGATTTGGTATAAATATTCCT
 TCACCTGAACATTCAAATACGATTGACGTATGTAATACTGTTGACATAAAAACTGAGGATCTGTCTGACA
 GCCTGCCACCCGTTTGTGACACAGTAGCCACTGACTTATGTTCCACAGGCATTGATATCTGCAGTTTCAG
 TGAAGATATAAACCTGGAGACTCTCTGTTACTGAGTGTGAGGAAGTACTCCGCAGCTTAGAACTGTT
 TCAAATACAGAGGTCTGTTGCCCTAATTTGCAGCCGAAGTTGGAAGCCACTGTATCCAATGGACCTTTTC
 TGCAGCTTTCTCCAGTCTCTTAGCCATAATGTTTTTATGTCCACCAGTCTGCCTTCATGGGTTATC
 ATGTACAGCAGCAACTCCGAAGTAGCAAAATGGAATAGAAAACGATCCAGATCAGAGAGTGACAGTGAG
 AAAGTTCAGCCACTTCCAATTTCTACCATTATCCGAGGCCAACACTGGGGGCATCTGCTCCTGTGACAG
 TGAACCGGGAGAGCAAAATTTCTCTTCAACCTATAGCAACTGTTCCCAATGGAGGCACAACACCTAAAAT
 CAGCAAAACTGTACTTTTATCTACTAAAAGCATGAAAAAGAGTCATGAACATGGATCCAAGAAAATCTCAC
 TCTAAAACCAAGCCAGGTATTCTTAAAAAGACAAAGCAGTAAAGGAAAAGATTCTAGTCATCATTTTA
 TGCCAGGAAGTCTACCAAGACTGTGTACAAAAAACCCAGGAAAAGAAAGGGTGTAAATGTGGCGTGC
 TACTCAAATCCAAGTGTCTTACATGCCGAGGCCAACGCTGCCCTTGCTACTCTAACCGCAAAGCTGC
 TTAGATTGTATATGTCGTGGCTGCCAAACTCCTATATGGCCAATGGGGAGAAGAAGCTGGAGGCATTTG
 CCGTGCCAGAAAAGCCCTGGAGCAGACCAGGCTCACTTGGGCATTACGTGACTAGCATTGCTGTGCG
 TAACGCTAGTACCAGCACCAGTGAATAAATGTCACAGGGTCCCCAGTAACGACGTTTTTAGCTGCCAGT
 ACACATGATGATAAAAGTTGGATGAAGCTATAGACATGAGATTCGACTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226663 representing NM_001145417
 Red=Cloning site Green=Tags(s)

MNPVNATALYISASRLVLYDPGDPKAFTEINRLLPYFRQSLSCCVCGHLLQDPIAPTNSTCQHVVCKTC
 KGKMMMPSCSWCKDYEQFEENKQLSILVNCYKKLCEYITQTLARDIEAVDCSSDILALLNDGSLFC
 EETEKPSDSSFTLCLTHSPLPSTSEPTDQPASLSPMSESTLSIAIGSSVINGLPTYNGLSIDRFGINIP
 SPEHSNTIDVCNTVDIKTEDLSDSLPPVCDTVATDLCTGIDICSFSEDIKPGDSLILLSVEEVLRSLET
 SNTEVCCPNLQPNLEATVSNPFLQLSSQSLSHNVFMSTSPALHGLSCTAATPKIAKLNKRKRSRSESDSE
 KVQPLPISTIIRGPTLGASAPVTVKRESKISLQPIATVPNGGTPKISKTVLLSTKSMKKSHEHGSKSH
 SKTKPGILKDKAVKEKIPSHHFMPGSPTKTVYKKPQEKKGCKGRATQNPVSLTCRGQRCPYSNRKAC
 LDCICRGQNSYMANGEKLEAFVPEKALEQTRLTLGINVTSIAVRNASTSTSVINVTGSPVTTFLAAS
 THDDKSLDEAIDMRFDC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001145417

ORF Size: 1734 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_001145417.1](#), [NP_001138889.1](#)

RefSeq Size: 3895 bp

RefSeq ORF: 1512 bp

Locus ID: 55167

UniProt ID: [Q9HCI7](#)

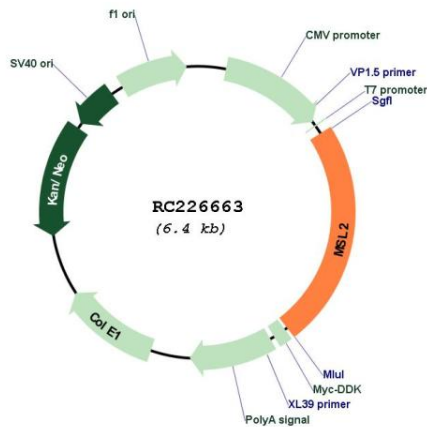
Cytogenetics: 3q22.3

Protein Families: Druggable Genome

MW: 62.5 kDa

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 RC226663