

Product datasheet for **RG226663**

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:	TurboGFP
Symbol:	MSL2
Synonyms:	MSL-2; MSL2L1; RNF184
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226663 representing NM_001145417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACCCCGTGAATGCTACTGCTCTACATTTCCGCGAGCCGCTAGTGCTCAACTACGACCCCGGAG
 ACCCCAAGGCGTTTACTGAGATTAACAGGCTCTTGCCTTACTCCGACAGTCCCTTTCGTGCTGTGTTG
 CGGACATTTGCTACAAGATCCTATTGCACCCACCAACTCCACCTGCCAACATTATGTCTGCAAAACTTGT
 AAAGGCAAGAAAAATGATGATGAAACCTTCTGTAGCTGGTCAAAGACTATGAGCAGTTTGGAGAAAACA
 AGCAGTTAAGCATCCTAGTGAAGTCTACAAAAAACTATGCGAGTATAAACACAGACTACACTGGCAGC
 GGATATAATAGAAGCAGTTGACTGTTCTTCTGATATTTTGGCTTTGCTTAATGATGGATCATTGTTTTGT
 GAGGAGACAGAAAAACCCTCAGATTCATCTTTACTTTGTGTTGACACATTCCTTTTACCTTCAACCT
 CAGAACCACAAGTATCCTCAAGCTAGTTTATCTCCAATGTCTGAAAGCACCCCTCAGCATTGCTATTGG
 CAGTTCTGTTATCAATGGTTTGCCTACTTATAATGGGCTTCAATAGATAGATTTGGTATAAATATTCT
 TCACCTGAACATTCAAATACGATTGACGTATGTAATACTGTTGACATAAAAACTGAGGATCTGTCTGACA
 GCCTGCCACCCGTTTGTGACACAGTAGCCACTGACTTATGTTCCACAGGCATTGATATCTGCAGTTTCAG
 TGAAGATATAAACCTGGAGACTCTCTGTTACTGAGTGTGAGGAAGTACTCCGCAGCTTAGAAAAGTGT
 TCAAATACAGAGGCTGTGTGCCCTAATTTGCAGCCGAAGTGGAAAGCCACTGTATCCAATGGACCTTTTC
 TGCAGCTTTCTCCAGTCTCTTAGCCATAATGTTTTATGTCCACCAGTCTGCCTTTCATGGGTTATC
 ATGTACAGCAGCAACTCCGAAGTAGCAAAATGAATAGAAAACGATCCAGATCAGAGAGTGACAGTGAG
 AAAGTTCAGCCACTTCCAATTTCTACCATTATCCGAGGCCAACACTGGGGGCATCTGCTCTGTGACAG
 TGAACCGGGAGAGCAAAATTTCTCTTCAACCTATAGCAACTGTTCCCAATGGAGGCACAACACCTAAAAT
 CAGCAAAACTGTACTTTTATCTACTAAAAGCATGAAAAAGAGTCATGAACATGGATCCAAGAAATCTCAC
 TCTAAAACCAAGCCAGGTATTCTTAAAAAAGACAAAGCAGTAAAGGAAAAGATTCTAGTCATCATTTTA
 TGCCAGGAAGTCTACCAAGACTGTGTACAAAAAACCAGGAAAAGAAAGGGTGTAAATGTGGCGTGC
 TACTCAAATCCAAGTGTCTTACATGCCGAGGCCAACGCTGCCCTTGCTACTCTAACCGCAAAGCTGC
 TTAGATTGTATATGTCGTGGCTGCCAAACTCTATATGGCCAATGGGGAGAAGAAGCTGGAGGCATTTG
 CCGTGCCAGAAAAGGCCTTGGAGCAGACCAGGCTCACTTTGGGCATTACGTGACTAGCATTGCTGTGCG
 TAACGCTAGTACCAGCACCAGTGAATAAATGTCACAGGGTCCCCAGTAAACGACGTTTTTAGCTGCCAGT
 ACACATGATGATAAAAGTTGGATGAAGCTATAGACATGAGATTCGACTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226663 representing NM_001145417
 Red=Cloning site Green=Tags(s)

MNPVNATALYISASRLVLYDPGDPKAFTEINRLLPYFRQSLSCCVCGHLLQDPIAPTNSTCQHIVCKTC
 KGKMMMPKSCSWCKDYEQFEENKQLSILVNCYKLCYITQTTLARDIEAVDCSSDILALLNDGSLFC
 EETEKPSDSSFTLCLTHSPLPSTSEPTDTPQASLSPMSESTLSIAIGSSVINGLPTYNGLSIDRFGINIP
 SPEHSNTIDVCNTVDIKTEDLSDSLPPVCDTVAIDLCTGIDICSFSEDIKPGDLSLLSVEEVLRSLET
 SNTEVCCPNLQPNLEATVSNPFLQLSSQSLSHNVFMSTSPALHGLSCTAATPKIAKLNKRSRSESDSE
 KVQPLPISTIIRGPTLGASAPVTVKRESKISLQPIATVPNGGTPKISKTVLLSTKSMKKSHEHGSKSH
 SKTKPGILKDKAVKEKIPSHHFMPGSPTKTVYKPKQEKKGCKGRATQNPVLTGRGQRCPYSNRKAC
 LDCICRGQNSYMANGKLEAFVPEKALEQTRLTLGINVTSIAVRNASTSTSVINVTGSPVTTFLAAS
 THDDKSLDEAIDMRFD

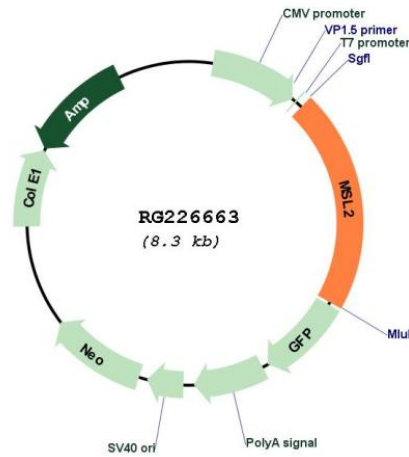
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:


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:	<ol style="list-style-type: none">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
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]