

Product datasheet for **MC219092**

MlIt3 (NM_027326) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MlIt3 (NM_027326) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	MlIt3
Synonyms:	2210011H10Rik; 2610012I03Rik; 3830408D16Rik; Af9; D4Ertd321e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219092 representing NM_027326
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTAGCTCGTGTGCCGTGCAGTGAAGCTGGAGCTGGGGCACCGCCAGGTGAGGAAGAAACCCA
 CAGTGGAGGGCTTCACCCACGACTGGATGGTGTTCGTGCGCGGCCGGAGCACAGTAACATTCAGCACTT
 TGTGGAGAAAGTCGTCTTCCACTTGCACGAAAGCTTCCCTAGGCCAAAAAGAGTGTGCAAAGACCCACCT
 TACAAGGTAGAAGAGTCCGGGTACGCTGGCTTCATCTTGCCAATTGAAGTTTATTTTAAAAACAAGGAAG
 AACCTAAGAAAGTCCGCTTTGATTATGACTTATTCCTGCATCTTGAAGGCCACCCACCACTGAATCACCT
 CCGCTGTGAGAACTAATTTCAATAACCCACGGAGGACTTTAGAAGAAAGTTGCTGAAGGCAGGAGGG
 GACCCTAACAGGAGCATTACACCAGCAGTAGCAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGCA
 GCAGTAGTAGCAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAG
 CAGCAGTAGTAGCAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAG
 TCCAGAGAACATAAAAGTGCCTTCAAAGAACCTTCCAGGGATCACAACAATCTTCAAAGACTCCCTCCA
 AGAAACCCAAAGAAAACAACCCTGAAAGAAAGAAAAATAGTTCCTAAGATGGCCTTCAAGGAACCTAA
 ACCCATGTCAAAGAGCCAAAAGCAGACAGTACTTACTCACCGTACCAGTGGGCAGCAGGACAAGAAG
 GCGCCAGCAAAGGCCCTTGCATTCAGATTCTGAAGAACTCTCAGCCAAAAAGGAAAAAGAGTAGCT
 CGGAGGCTTTATTTAAAAGTTTTCTAGTGCGCCCCACTGATACTCACTTGTCTGTGACAAAAAACA
 GATAAAAGATAAATCTCATGTCAAGATGGGAAAGGTCAAATTTGAGAGTGAGACTTCAGAGAAGAAGAAG
 TCAATGTTGCCACCGTTTGATGACATCGTGGATCCCAATGACTCAGACGTGGAGGAGAACATGTCCTCGA
 AATCTGACTCAGAGCAACCCAGTCTGCCAGTCCAGTCCAGTCCAGTCCAGTCCAGTCCAGTCCAGTCCCA
 GACCAGGCAACAAGTCCCTTAAAGTTCGATCATGAAAGATCTGCATTCTGATGACAACGAGGAGGAGTCT
 GATGAGGCAGAGGACAATGACAATGACTCGGAGATGAAAAGACCTGTAATAGAGGAGGAAGCCGAAGTC
 GCAGGGTCAGCTTGAGTGACGGCAGTGACAGTGAAAGCAGCTCCGCCTCTTCCCCTCTCCATCATGAACC
 CCCGCCACCATTATTGAAAACAAACAACCAGATCCTTGAAGTAAAAGTCCAATAAAACAAGCAAA
 TCAGATAAGCAAATAAAGAATGGTGAATGTGACAAGGCATATCTAGATGAGTTGGTAGAGCTCCACAGAA
 GGTAAATGACTGAGGGAACGACACATTCTGCAGCAGATCGTGAACCTTATAGAGGAACTGGACACTT
 TCATATTACGAATACAACATTTGATTTTGATCTTTGCTCGCTGGACAAAACACTACAGTCCGTAATTACAG
 AGTTACCTGGAACATCTGGAACATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1719_e07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_027326

Insert Size: 1710 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_027326.3](#), [NP_081602.3](#)

RefSeq Size: 6129 bp

RefSeq ORF: 1710 bp

Locus ID: 70122

UniProt ID: [A2AM29](#)

Cytogenetics: 4 41.06 cM

Gene Summary:

Chromatin reader component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. Specifically recognizes and binds acylated histone H3, with a marked preference for histone H3 that is crotonylated.

Crotonylation marks active promoters and enhancers and confers resistance to transcriptional repressors. Recognizes and binds histone H3 crotonylated at 'Lys-9' (H3K9cr), and with slightly lower affinity histone H3 crotonylated at 'Lys-18' (H3K18cr). Also recognizes and binds histone H3 acetylated at 'Lys-9' (H3K9ac), but with lower affinity than crotonylated histone H3. In the SEC complex, MLLT3 is required to recruit the complex to crotonylated histones.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.