

## Product datasheet for **MC219092**

### **MIlt3 (NM\_027326) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MIlt3 (NM_027326) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	MIlt3
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**

ATGGCTAGCTCGTGTGCCGTGCAGGTGAAGCTGGAGCTGGGGCACCGCGCCAGGTGAGGAAGAAACCCA  
 CAGTGGAGGGCTTCACCCACGACTGGATGGTGTTCGTGCGCGGCCCGGAGCACAGTAACATTCAGCACTT  
 TGTGGAGAAAGTCGTCTTCCACTTGACGAAAGCTTCCCTAGGCCAAAAAGAGTGTGCAAGACCCACCT  
 TACAAGGTAGAAGAGTCCGGGTACGCTGGCTTCATCTTGCCAATTGAAGTTTATTTTAAAAACAAGGAAG  
 AACCTAAGAAAGTCCGCTTTGATTATGACTTATTCCTGCATCTTGAAGGCCACCCACCACTGAATCACCT  
 CCGCTGTGAGAACTAATTTCAATAACCCACGGAGGACTTTAGAAGAAAGTTGCTGAAGGCAGGAGGG  
 GACCCTAACAGGAGCATTACATACCAGCAGTAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGCA  
 GCAGTAGTAGCAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGCAG  
 CAGCAGTAGTAGCAGTTCCTTCAAGCCTCACAAATTAATGAAGGAGCACAAAGAAAAACCTTCTAAGGAC  
 TCCAGAGAACATAAAAGTGCCTTCAAAGAACCTTCCAGGGATCACAACAATCTTCCAAAGACTCCTCCA  
 AGAAACCCAAAGAAAAACAACCACTGAAAGAAGAAAAATAGTTCCTAAGATGGCCTTCAAGGAACCTAA  
 ACCCATGTCAAAAGAGCCAAAAGCAGACAGTAACCTACTCACCCTCACCAGTGGGCAGCAGGACAAGAAG  
 GCGCCAGCAAAAGGCCCTGCTTCAGATTCTGAAGAACTCTCAGCCAAAAAAGGAAAAAGAGTAGCT  
 CGGAGGCTTTATTTAAAGTTTTTCTAGTGCGCCCCCACTGATACTCACTTGTCTGTGACAAAAAACA  
 GATAAAAGATAAATCTCATGTCAAGATGGGAAAGGTCAAATTGAGAGTGAGACTTCAGAGAAGAAGAAG  
 TCAATGTTGCCACCGTTTGATGACATCGTGGATCCCAATGACTCAGACGTGGAGGAGAACATGTCCTCGA  
 AATCTGACTCAGAGCAACCCAGTCCCTGCCAGTCCAGTCCAGTCCAGTCCAGTCCAGTCCAGTCCAGTCC  
 GACCAAGGCAACAAGGTCCTTTAAGGTCGATCATGAAAGATCTGCATTCTGATGACAACGAGGAGGAGTCT  
 GATGAGGCAGAGGACAATGACAATGACTCGGAGATGGAAGACCTGTAATAGAGGAGGAAGCCGAAGTC  
 GCAGGGTCAGCTTGAGTGACGGCAGTGACAGTGAAAGCAGCTCCGCCTCTTCCCCTCTCCATCATGAACC  
 CCCGCCACCATTATTGAAAATAACAACAACCAGATCCTTGAAGTGAAAAGTCCAATAAAACAAAGCAAA  
 TCAGATAAGCAAATAAAGAATGGTGAATGTGACAAGGCATATCTAGATGAGTTGGTAGAGCTCCACAGAA  
 GGTTAATGACACTGAGGGAACGACACATTCTGCAGCAGATCGTGAACCTTATAGAGGAACTGGACACTT  
 TCATATTACGAATACAACATTTGATTTTGATCTTTGCTCGCTGGACAAAACCTACAGTCCGTAAATTACAG  
 AGTTACCTGGAACATCTGGAACATCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1719\\_e07.zip](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](mailto: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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**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.