

## Product datasheet for **MC211043**

### **MlIt3 (NM\_029931) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MlIt3 (NM\_029931) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MlIt3  
**Synonyms:** 2210011H10Rik; 2610012I03Rik; 3830408D16Rik; Af9; D4Ertd321e  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC211043 representing NM\_029931  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGAAAGATCTGCATTCTGATGACAACGAGGAGGAGTCTGATGAGGCAGAGGACAATGACAATGACTCGG**  
**AGATGGAAAGACCTGTAATAGAGGAGGAAGCCGAAGTCGCAGGGTCAGCTTGAGTGACGGCAGTGACAG**  
**TGAAAGCAGCTCCGCCTTCCCTCTCCATCATGAACCCCGCCACCATTATTGAAAACAAACAAC**  
**CAGATCCTTGAAGTGAAAAGTCCAATAAAACAAAGCAAATCAGATAAGCAAATAAAGAATGGTGAATGTG**  
**ACAAGGCATATCTAGATGAGTTGGTAGAGCTCCACAGAAGGTTAATGACACTGAGGGAACGACACATTCT**  
**GCAGCAGATCGTGAACCTTATAGAGGAACTGGACACTTTCATATTACGAATACAACATTTGATTTTGAT**  
**CTTTGCTCGCTGGACAAAACACTACAGTCCGTAATTACAGAGTTACCTGGAAACATCTGGAACATCTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_029931  
**Insert Size:** 489 bp  
**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_029931.3</a></u> , <u><a href="#">NP_084207.2</a></u>
<b>RefSeq Size:</b>	4802 bp
<b>RefSeq ORF:</b>	489 bp
<b>Locus ID:</b>	70122
<b>Cytogenetics:</b>	4 41.06 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks several exons, uses an alternate 5' exon structure and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 2, which is shorter than 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.</p>