

Product datasheet for **MG208832**

Mllt3 (BC021420) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mllt3 (BC021420) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mllt3
Synonyms:	2210011H10Rik; 2610012I03Rik; 3830408D16Rik; Af9; D4Ertd321e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208832 representing BC021420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTAGCTCGTGTGCCGTGCAGTGAAGCTGGAGCTGGGGCACCGCCAGGTGAGGAAGAAACCCA
 CAGTGGAGGGCTTCAACCACGACTGGATGGTGTTCGTGCCGGCCGGAGCACAGTAACATTCAGCACTT
 TGTGGAGAAAGTCGCTTCCACTTGCACGAAAGCTTCCCTAGGCCAAAAAGAGTGTGCAAGACCCACCT
 TACAAGGTAGAAGAGTCCGGGTACGCTGGCTTCATATTGCCAATTGAAGTTATTTTAAAAACAAGGAAG
 AACCTAAGAAAGTCCGCTTTGATTATGACTTATTCCTGCATCTTGAAGGCCACCCACAGTGAATCACCT
 CCGCTGTGAGAACTAATTTCAATAACCCACGGAGGACTTTAGAAGAAAGTTGCTGAAGGCAGGAGGG
 GACCCTAACAGGAGCATTACACCAGCAGTAGCAGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCAGCA
 GCAGTAGCAGTAGCAGCAGCAGCAGCAGCAGCAGCAGTAGTACCAGTTTTTCAAAGCCTCACAAATT
 AATGAAGGAGCACAAAGAAAAACCTTCTAAGGACTCCAGAGAACAATAAAGTGCCTTCAAAGAACCTTCC
 AGGGATACAACAAATCTTCAAAGACTCCTCAAAGAAACCCAAAGAAAAACAACTGAAAGAAGAAA
 AAATAGTTCCTAAGATGGCCTTCAAGGAACCTAAACCCATGTCAAAGAGCCAAAAGCAGACAGTAACTT
 ACTCACCGTACACAGTGGGCAGCAGGACAAGAAGGCGCCAGCAAAGGCCCCCTGCTTCAGATTCTGAA
 GAACTCTCAGCAAAAAAAGGAAAAAGAGTAGCTCGGAGGCTTTATTTAAAAGTTTTCTAGTGCGCCCC
 CACTGATACTCACTTGTCTGCTGACAAAAACAGATAAAAGATAAATCTCATGTCAAGATGGGAAAGGT
 CAAAATTGAGAGTGAGACTTCAGAGAAGAAGAAGTCAACGTTGCCACCGTTTGATGACATCGTGGATCCC
 AATGACTCAGACGTGGAGGAGAACATGTCTCGAAATCTGACTCAGAGCAACCCAGTCTGCCAGCTCCA
 GCTCCAGTTCAGCTCCAGCTTACACCATCCCAGACCAGGCAACAAGGTCCTTTAAGGTCGATCATGAA
 AGATCTGCATTCTGATGACAACGAGGAGGAGTCTGATGAGGCAGAGGACAATGACAATGACTCGGAGATG
 GAAAGACCTGTAATAGAGGAGGAAGCCGAAGTCGCAGGGTCAGCTTGAGTGATGGCAGTGACAGTGAAA
 GCAGCTCCGCCTTCCCTCTCCATCATGAACCCCGCCACCATTATTGAAAATAACAACAACAGAT
 CCTTGAAGTGAAGTCCAATAAAACAAAGCAAATCAGATAAGCAAATAAAAAATGGTGAATGTGACAAG
 GCATATCTAGATGAGTTGGTAGAGCTCCACAGAAGGTTAATGACACTGAGGGAACGACACATTCTGCAGC
 AGATCGTGAACCTTATAGAGGAACTGGACACTTTCATATTACGAATACAACATTTGATTTTGATCTTTG
 CTCGCTGGACAAAACACAGTCCGTAATACAGAGTTACCTGGAACATCTGGAACATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208832 representing BC021420
 Red=Cloning site Green=Tags(s)

MASSCAVQVKLELGHRAQVRKKPTVEGFTHDWMVFRGPEHSNIQHFVEKVVFHLHESFPRPKRVCKDPP
 YKVEESGYAGFILPIEVYFKNKEEPKVRFDYDLFLHLEGHPPVNHRLRCEKLTFFNNPTEDFRRKLLKAGG
 DPNRSIHTSS
 RDHNKSSKDSKPKENKPLKEEKIVPKMAFKEPKPMSKEPKADSNLLTVTSGQQDKKAPSKRPPASDSE
 ELSAKRKRKSSSEALFKSFSSAPPLILTCSADKKQIKDKSHVKMGKVKIESETSEKKSTLPPFDDIVDP
 NDSDVENMSSKSDSEQSPASS
 ERPVNRGGSRRVSLSDGSDSESSASSPLHHEPPPLKTNNNQILEVKSPIKQSKSDKQIKNGECDK
 AYLDLVELHRRMLRLRERHILQQIVNLIETGPHFITNTTFDFDLCSLDKTTVRKLQSYLETSGTS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC021420

ORF Size: 1673 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: [BC021420](#), [AAH21420](#)

RefSeq Size: 3220 bp

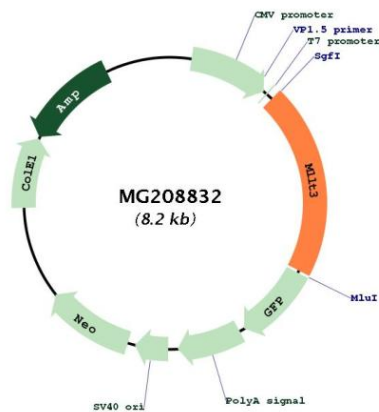
RefSeq ORF: 1673 bp

Locus ID: 70122

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, MLL3 is required to recruit the complex to crotonylated histones.[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG208832