

Product datasheet for **MC229331**

MIIt10 (NM_001252560) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIIt10 (NM_001252560) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	MIIt10
Synonyms:	Af10; B130021D15Rik; D630001B22Rik; mKIAA4140
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229331 representing NM_001252560 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGGTCTCTAGCGACCGGCCGTGCTCACTGGAGGACGAGGTCTCCCATAGTATGAAGGAAATGATTGGAG
GCTGTTGCGTTTCTCAGACGAGAGAGGCTGGCCGAGAACCCTGGTTTATTGCGACGGGCACGGCTG
CAGCGTCGCGGTGCATCAAGTTGCTATGGCATTGTTCAAGTACCTACTGGACCGTGGTTTTGTAGGAAA
TGTGAATCTCAGGAGAGAGCAGCCAGAGTGAGATGTGAGCTGTGTCCCATAAAGATGGAGCTTTAAAAA
GAACAGATAATGGGGTTGGGCTCATGTGGTTTGTGCCCTCTATATTCCAGAGGTACAATTTGCCAATGT
TTCTACAATGGAGCCAATCGTTTTACAGTCTGTCCCATGATCGTTATAATAAGACTTGCATATATGT
GATGAACAAGGACGAGAAAGCAAAGCAGCCACTGGTGCTTGCATGACATGTAATAAACATGGATGTCGAC
AGGCTTTCCATGTAACATGTGCTCAGTTTGCCGGGCTGCTTTGTGAAGAAGAAGGGAATGGCGCAGACAA
TGTTCAATACTGTGGCTACTGTAATACCACTTTAGTAAGCTGAAAAAGAGCAAACGGGGATCTAATAGG
TCATATGAGCAAAGTTAAGTGACTCTTCTCTCACTCTCAGGATAAGCATCATGAGAAAGAGAAAAAAA
AATATAAAGAAAAGGACAAACAAAAACAAGAAGCAACCAAGGAAAGGAAATCCACCTGCCTTGGTTCC
TTCTTTGACTGTTACTACAGAAAAAATTATACAAGCACTAGCAACAACCTCCATATCTGGATCATTGAAG
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GAAAAGATGTTTCAGAGGCTAGAGGGTCAGAGGGCAAAGGGAAGAAATCTTCAGCTCACAGCTCAGGTCA
AAGGGGAAGGAAGCCTGGTGCAGGAAGAAATCCAGGAACAGCTGTGTCAGCATCTAGCCCTTTCCACAA
GGCAGTTTTTCAGGAACCCAGGCAGTGTAAAGTCACTTCTGGAAGTTCAGTGCAGTCTCCCCAGGACT
TCTTAAGCTTTACAGACTCAGATCTGCGAAGTGACAGTTACACTCACACCCAGCAGCCATCATCAACCAA
AGATGTACATAAAGGAGAGTCTGGAAGCCAGGAAGCGGCAGTAAACAGTTTTAGCTCTTTAGTTGGTCCAC
CCTGTGACCTCGACTGTTATTTACAGCCTAAAAGCTTTGACAATTCACCTGGAGAGTTGGGTAGTTCGA
GCCTCCCTACAGCAGGATATAAGCGGGCTCAGACTTCTGGTATAGAAGAAGAAGCTGTAAGGAAAAGAA
ACGAAAAGGAAATAAGCAAAGCAAACATGGCCCGGCCGACCCAAAGGAAACAAAATCAAGAAAATGTT
TCTCACCTCTCAGTTTCTTCTGCTTACCAACATCGTCCGTAGCATCAGCTGCAGGAAGTGAACAAGCT



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CTAGTCTTCAGAAATCTCCTACGCTGCTCAGGAATGGAAGTTTGCAGAGTCTTAGTGTGGCTCGTCTCC
 AGTTGGCTCAGAAATTTCCATGCAGTATCGACATGATGGAGCTTGTCCAACAACCTACCTTCTCAGAGTTG
 CTGAATGCAATACACAATGGTATTTATAACAGCAATGATGTAGCCGTATCCTTTCCAAACGTGGTGTCTG
 GCTCAGGATCTAGTACTCCTGTCTCTAGCTCTCATATACCTCAGCAGTCATCTGGTCATTTGCAACAGGT
 GGGAGCTCTCTCCCCCTCAGTCGCTCATCTGTAACCCCTGCTGCTGCTACAACCTCAGGCAAAATACCGTT
 TCTGGATCTTCTCTCAGTCAGGCACCAGCCCATATGTATGGCAGTAGATTAATCAGAATCCATCCATGG
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 TGGCCGAGGAAGCTCGCCCCGAGGAAGCCTCTCTCCGAGATCCCCTGTGAGCAACTTACAGCTTCGCTAT
 GATCAACCGAGCAATAGCAGTTTGGAACTGTGCCTCCAGTAGCAGCAAGTATTGAACAGCTCTTGAGA
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 GTCATTACATCAACTTCAAGTTGAAAAATCGAAGATTAGAAGAACAGATCAAAAAATTTGACTGCCAAGAAA
 GAACGTCTTCAGTTGTTGAATGCACAGCTTTTCAAGTGCCTTTCCAGCCATAACGACAAACCCAGTCCGT
 CCCATCAGATGCACACATACACAGCAGACTGCTCCTCCTGATTCCCTGAACAGCAGTAAGAGCCC
 ACATATAGGAAACAGCTTTTTACCTGACAATTCTTCTCTGTATTAATCAGGACTTGACCTCCAGTGA
 CAAAGCACCAGCAGTTTCTGCTCTTTTACTCCCCCTCTGCTGGCCAGAGTCTGCTCAGCAGAGCT
 CTGGAGTCAGTGGGGTTCAGCAGGTGAATGGCGTGACAGTGGGGGCACTAGCTAGTGGGATGCAGACCGT
 CACATCCACCATCCCAGCTGTGTCCGAGTGGGTGGAATAATTGGAGCTCTGCCAGGTAACCAACTGGCA
 ATTAACGGCATTGTGGGAGCTTTAAATGGTGTGATTTCAGACTCCAGTCACAATCTCCAGAACCTGGCC
 CTCTCACCCACACCAGTGTACCACCTAATGCAGCGCATCCAATGCCGGCCGCCGACTGACCAACAGTGC
 CTCGGGACTAGGGCTGTGTCCGACCAGCAGAGACAGATGTTTATCCAGCAGCAGCAGTTCCAGCAGCTG
 TAAACTCCCAGCAGCTCACACCCGAACAGCATCAGGCCTTCTATACCAGCTGATGCAGCAGCAGCACC
 ACCCGCTGAGCTCCAGCAGCTGCAGCTCCCGGGACCCACGCAGATCCCCATCAACAATCTCCTTGCAAG
 TGCTCAGGCGCCTCCACTCCACACAGCTACCACCAACCCCTTCTCACCATCCACGGGGACAGCAGGAGC
 CAGAAGGTCACAAGACTTAGTGATAAAACTGGGCTGTAGCTCAAGAGAAAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001252560
- Insert Size:** 3207 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001252560.1](#), [NP_001239489.1](#)

RefSeq Size: 5065 bp

RefSeq ORF: 3207 bp

Locus ID: 17354

UniProt ID: [O54826](#)

Cytogenetics: 2 A3

Gene Summary: Probably involved in transcriptional regulation. Binds to cruciform DNA (By similarity). In cells, binding to unmodified histone H3 regulates DOT1L functions including histone H3 'Lys-79' dimethylation (H3K79me2) and gene activation (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes isoform 1. Variants 1 and 2 encode the same isoform. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.