

Product datasheet for **MC203446**

MIIt10 (NM_010804) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MIIt10 (NM_010804) Mouse Untagged Clone
Tag: Tag Free
Symbol: MIIt10
Synonyms: Af10; B130021D15Rik; D630001B22Rik; mKIAA4140
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC070475
 TGG AATATAAGCTCTCCGACGTTCTAGTTACTTTCAAGGTGGATTGTGTATTTAAAGGCTGATGGGAG
 CGTCTGGTTTTGGAGGAAAAAGAGAGAAGTGGTCTCTAGCGACCGGCCGTGCTCACTGGAGGACGAG
 GTCTCCCATAGTATGAAGGAAATGATTGGAGGCTGTTGCGTTTGCTCAGACGAGAGAGGCTGGGCCGAGA
 ACCCGCTGGTTTTATTGCGACGGGCACGGCTGCAGCGTCGCGGTGCATCAAGCTTGCTATGGCATTGTTC
 AGTACCTACTGGACCGTGGTTTTGTAGGAAATGTGAATCTCAGGAGAGAGCAGCCAGAGTGAGATGTGAG
 CTGTGTCCCATAAAGATGGAGCTTTAAAAAGAACAGATAATGGGGTTGGGCTCATGTGGTTTTGTGCC
 TCTATATTCCAGAGGTACAATTTGCCAATGTTTCTACAATGGAGCCAATCGTTTTACAGTCTGTCCACA
 TGATCGTTATAATAAGACTTGCTATATATGTGATGAACAAGGACGAGAAAGCAAAGCAGCCACTGGTGT
 TGCATGACATGTAATAAACATGGATGTCGACAGGCTTTCCATGTAACATGTGCTCAGTTTGTGGGCTGC
 TTTGTGAAGAAGAAGGGAATGGCGCAGACAATGTTCAATACTGTGGCTACTGTAATACCACTTTAGTAA
 GCTGAAAAAGAGCAAACGGGGATCTAATAGGTCATATGAGCAAAGTTAAAGTGACTCTTCTCTCACTCT
 CAGGATAAGCATCATGAGAAAGAGAAAAAAATATAAGAAAAGGACAAACACAAAAACAAAAACACAAGA
 AGCAACCAAGAACCGTCACCTGCCTTGGTTCCTTTGACTGTTACTACAGAAAAAATTATACAAGCAC
 TAGCAACAACCCATATCTGGATCATTGAAGCGCTTGAAGATACTGCAGCAAGATTTACAAATGCAAAAT
 TTCCAGGAAGTCTCTGCCATACCTCTAGTGGAAAAGATGTTTCAGAGGCTAGAGGGTCAGAGGGCAAAG
 GGAAGAAATCTTCAGCTCACAGCTCAGGTCAAAGGGGAAGGAAGCCTGGTGCAGGAAGAAATCCAGGAAC
 AGCTGTGTGAGCATCTAGCCCCTTTCCACAAGGCAGTTTTTTCAGGAACCTCAGGCAGTGTAAAGTCATCT
 TCTGGAAGTTTCAGTGCAGTCTCCCGAGGACTTCTTAAGCTTTACAGACTCAGATCTGCGAAGTGACAGTT
 ACACCTCACACCCAGCAGCCATCATCAACCAAGATGTACATAAAGGAGAGTCTGGAAGCCAGGAAGCGGC
 AGTAAACAGTTTTAGCTCTTTAGTTGGTACCCTGTGACCTCGACTGTTATTTACAGCCTAAAAGCTTT
 GACAATTCACCTGGAGAGTTGGGTAGTTGAGCCTCCCTACAGCAGGATATAAGCGGGCTCAGACTTCTG
 GTATAGAAGAAGAAGCTGTAAAGGAAAAGAAACGAAAAGGAAATAAGCAAAGCAAACATGGCCCCGGCCG
 ACCCAAAGGAAACAAAAATCAAGAAAATGTTTCTCACCTCTCAGTTTCTTCTGCTTACCAACATCGTCC
 GTAGCATCAGTGCAGGAAGTGAACAAGCTCTAGTCTTCAGAAATCTCCTACGCTGCTCAGGAATGGAA
 GTTTGCAGAGTCTTAGTGTGGCTCGTCTCCAGTTGGCTCAGAAATTTCCATGCAGTATCGACATGATGG
 AGCTTGTCCAACAACCTTCTCAGAGTTGCTGAATGAATACACAATGGTATTTATAACAGCAATGAT



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GTAGCCGTATCCTTTCCAAACGTGGTGTCTGGCTCAGGATCTAGTACTCCTGTCTCTAGCTCTCATATAC
 CTCAGCAGTCATCTGGTCATTTGCAACAGGTGGGAGCTCTCTCCCTCAGCTGCGTCATCTGTAACCC
 TGCTGCTGCTACAACCTCAGGCAATACCGTTTCTGGATCTTCTCTCAGTCAGGCACCAGCCATATGTAT
 GGCAGTAGATTAATCAGAATCCATCCATGGCAGTTCTCATAGCTCAGTCTGAAAGCAGCCAAACAGATC
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 GTAGCAGCAAGTATTGAACAGCTTTGGAGAGGCAGTGGAGTGAAGGACAGCAGTTTTTACTAGAGCAGG
 GGACTCCTGGTGACATTCTAGGAATGTTAAAGTATTACATCAACTTCAAGTTGAAAATCGAAGATTAGA
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 CTCCTGATTCCCTGAACAGCAGTAAAGAGCCACATATAGGAAACAGTTTTTACCTGACAATTCTCTTCC
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 TGGGGGCACTAGTGTAGGGATGCAGACCGTACATCCACCATCCAGCTGTGTCGCGAGTGGGTGGAAT
 AATTGGAGCTCTGCCAGTAACCAACTGGCAATTAACGGCATTGTGGGAGCTTTAAATGGTGTGATTTCAG
 ACTCCAGTCACAATCTCCAGAACCCTGCCCTCTCACCCACACCAGTGTACCACCTAATGCAGCGCATC
 CAATGCCGGCCGCGCACTGACCAACAGTGCCTCGGGACTAGGGCTGCTGTGCGACCAGCAGAGACAGAT
 GTTTATCCAGCAGCAGCAGTTCCAGCAGCTGTTAAACTCCAGCAGCTCACACCCGAACAGCATCAGGCC
 TTCTATACCAGCTGATGCAGCAGCAGCACCACCCGCCTGAGCTCCAGCAGCTGCAGTCCCGGGACCCA
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 CTTCTCACCATCCACGGGGACAGCAGCAGCCAGAAGTCAACAAGTCTAGTATAAACTGGGCCTGTA
 GCTCAAGAGAAAAGTTGACACTTGAATAAGCCAGAACTCGCCTTTCCTGCTGTTCTGTGCTTCACTGCC
 TGCTGCAGTGTCTGCCACAGCTATGAAGAATGGAGGCGGAACACACAGGGGAGGATGCCACACACTCCC
 TTGTAAGGCTCTGATTTTCTTGTGCTTTGTTGCACTGAAATGGAATTCCTATATACCCATCCCTACCA
 AAGTGTGTTGAACTTCGGAAGAAAATTAATAACTTTTTGTCAATGAAATAATTATATGCAATGAGTTTA
 TCAATCCAAGAAAATGTAATGTGCTTGTGCACAGCTAGTTTTGTTATAAAATGGAAACATAAACTAA
 AGACTATTCTATTTGAAACCCTTGGTTATATCATAAAAGTTGGAATATAACTATCTTATTGGGATAGA
 GTGTGCTTGTCCACGGGGCAGATCTTAAGTTTTGAGAACTGTCTAATATCTTCTTGGAGTTGTATTC
 ATTAATATTGTTATTATACAGATCCTCAACTGGGGCTTTGCAAAATGTTTTAAAGAATTCCTTTCTAATG
 AGATTTGCCATTTGGAGATCAAATTAGGATGGAGACAAGTCTTCTGCTAACAGTAGTTTTCTTTTGA
 AAAGAAAAAATTTGTGTGTGTGTTAAACCTACTCTTGAGTTAAGGGAGCTGTAAAGGCTGCTGGGAGA
 ACTAGATCAATTGGATGAGAACAGTTTCTTTAGAAAATACACCAATGTGGAACCTGCTGCAAGTTCT
 AGCATCAAATTCCTGTTGGGACCTCCCTGGATAGAAAGGGCTCTGTAAGTCCCGGCAGGGCACTTGTGC
 CAGCAGCTTCCCGTGTCTTGTCTGTTGAACCTTTCTGTGCCACCAGAGAGAGCTCAGGCAAACTGA
 CTGTCCACAAGGAAACAAGTAGACCTGGGAAGAGTCTACATGCTTGTCTTATCTCATCAGCCTCAAACCC
 CCACTGGAACAGGCACACCACCAGTTCCTAAAACCTGTCCACAGCCTTCCGACTTAGCCATGCCCCG
 AGTAGCCATGCTCTTGTGTGACAATATGGCAGCCTAGTAGGTTAGACAGTTGGGGATATAATCATTGG
 TCTGTTTCTGAAACACATGAATTACTGGTGGGAAAGGCCAACTGCAGTTCGACCTCCACTGTGTGCTTA
 GCTGGAAGACCATGTGCACGGCTTAGCAGTCTGTCTTCTGTGACACTGCACACCTTACCTCACTTCTG
 TAAATAAGGTTGTGAATCTGTTTTGTAATGTGAAAAATTCATAAGATAACATTGATATTTTGTATTGTAA
 TATTTCTAATTGGTAGATTTAATTGAAAAGTAAAATTAATTTATTTTATATGTTTCAGGGGAATTTTAAA
 GAAAGTCAAACCTTTTGTAGATAATTTAAAAGAATCAGTGTGGTTATTTTATATATGTAACCCACTGGT
 TGTATTCTGTAACAATTTGTATAAATGGTAAATTTTGAATGTGCTGTTATTTTACTTAGATGTAATAA
 TCCACATGTATTAATGTACAAAGTTTTTGTAAATAAAATTTAATGATGTTTATAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_010804
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).
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:	<ol style="list-style-type: none"> 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:	<u>BC070475</u> , <u>AAH70475</u>
RefSeq Size:	4918 bp
RefSeq ORF:	3207 bp
Locus ID:	17354
UniProt ID:	<u>O54826</u>
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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1).