

Product datasheet for **MC229254**

MIIt10 (NM_001252561) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MIIt10 (NM_001252561) 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: >MC229254 representing NM_001252561
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGAGATGTGAGCTGTGTCCCCATAAAGATGGAGCTTTAAAAAGAACAGATAATGGGGGTTGGGCTC
ATGTGGTTTGTGCCCTCTATATCCAGAGGTACAATTTGCCAATGTTTCTACAATGGAGCCAATCGTTTT
ACAGTCTGTCCCACATGATCGTTATAATAAGACTTGCTATATATGTGATGAACAAGGACGAGAAAGCAA
GCAGCCACTGGTCTTGCATGACATGTAATAAACATGGATGTCGACAGGCTTCCATGTAACATGTGCTC
AGTTTGCCGGGCTGCTTTGTGAAGAAGAAGGAATGGCGCAGACAATGTTCAACTGTGGCTACTGTAA
ATACCACTTTAGTAAGCTGAAAAAGAGCAAACGGGGATCTAATAGGTCATATGAGCAAAGTTAAGTGAC
TCTTCTCTCACTCTCAGGATAAGCATCATGAGAAAGAGAAAAAATAAAGAAAAAGGACAAACACA
AACAAAAACACAAGAAGCAACCAGAACCGTACCTGCCTTGGTTCCTTCTTTGACTGTTACTACAGAAAA
AACTTATACAAGCACTAGCAACAACCTCCATATCTGGATCATTGAAGCGCTTGAAGATACTGCAGCAAGA
TTTACAAATGCAAATTTCCAGGAAGTCTCTGCCATACCTCTAGTGAAAAAGATGTTTCAGAGGCTAGAG
GGTCAGAGGGCAAAGGGAAGAAATCTTCAGCTCACAGCTCAGGTCAAAGGGGAAGGAAGCTGGTGCAGG
AAGAAATCCAGGAACAGCTGTGTCAGCATCTAGCCCTTTCCACAAGGCAGTTTTTCAGGAACCTCAGGC
AGTGTAAGTCATCTTCTGGAAGTTCAGTGCAGTCTCCCCAGGACTTCTTAAGCTTTACAGACTCAGATC
TGCGAAGTGACAGTTACTACTCACACCCAGCAGCCATCATCAACCAAGATGTACATAAAGGAGAGTCTGG
AAGCCAGGAAGCGGCAGTAAACAGTTTTAGCTCTTTAGTGGTACCCTGTGACCTCGACTGTTATTTCA
CAGCCTAAAAGCTTTGACAATTCACCTGGAGAGTTGGGTAGTTCGAGCCTCCCTACAGCAGGATATAAGC
GGGCTCAGACTTCTGGTATAGAAGAAGAAGCTGTAAGGAAAAAGAAACGAAAAGGAAATAAGCAAAGCAA
ACATGGCCCCGGCCGACCCAAAGGAAACAAAAATCAAGAAAATGTTTCTCACCTCTCAGTTCTTCTGCT
TCACCAACATCGTCCGTAGCATCAGCTGCAGGAAGTGAACAAGCTCTAGTCTTCAGAAATCTCCTACGC
TGCTCAGGAATGGAAGTTTGAGAGTCTTAGTGTGGCTCGTCTCCAGTTGGCTCAGAAATTTCCATGCA
GTATCGACATGATGGAGCTTGTCACAACACTACCTTCTCAGAGTTGCTGAATGCAATACACAATGGTATT
TATAACAGCAATGATGTAGCCGTATCCTTTCCAACGTGGTGTCTGGCTCAGGATCTAGTACTCCTGTCT



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CTAGCTCTCATATACCTCAGCAGTCATCTGGTCATTTGCAACAGGTGGGAGCTCTCTCCCCCTCAGCTGC
GTCATCTGTAACCCCTGCTGCTGCTACAACCTCAGGCAAATACCGTTTCTGGATCTTCTCTCAGTCAGGCA
CCAGCCCATATGTATGGCAGTAGATTAATCAGAATCCATCCATGGCAGTTCTCATAGCTCAGTCTGAAA
GCAGCCAAACAGATCAAGATCTTGGAGACAATGCCCGTAGCCTGGGTGGCCGAGGAAGCTCGCCCCGAGG
AAGCCTCTCTCCGAGATCCCCTGTGAGCAACTACAGCTTCGCTATGATCAACCGAGCAATAGCAGTTG
GAAACTGTGCCTCCAGTAGCAGCAAGTATTGAACAGCTCTTGGAGAGGCAGTGGAGTGAAGGACAGCAGT
TTTTACTAGAGCAGGGGACTCCTGGTGACATTCTAGGAATGTTAAAGTCATTACATCAACTCAAGTTGA
AAATCGAAGATTAGAAGAACAGATCAAAAATTTGACTGCCAAGAAAGAAGCTCTTCAGTTGTTGAATGCA
CAGCTTTCAGTGCCTTTCCAGCCATAACGACAAACCCAGTCCGTCATCAGATGCACACATACACAG
CACAGACTGCTCCTCCTGATTCCCTGAACAGCAGTAAGAGCCACATATAGGAAACAGCTTTTTTACC
TGACAATTCTCTTCTGTATTAATCAGGACTTGACCTCCAGTGGACAAAGCACCAGCAGTTCTTCTGCT
CTTTCTACTCCCCCTCCTGCTGGCCAGAGTCTGCTCAGCAGAGCTCTGGAGTCACTGGGGTTCAGCAGG
TGAATGGCGTGACAGTGGGGGACTAGTGTGGATGCAGACCGTCACATCCACCATCCAGCTGTGTC
CGCAGTGGGTGGAATAATTGGAGCTCTGCCAGGTAACCAACTGGCAATTAACGGCATTGTGGGAGCTTTA
AATGGTGTGATTCAGACTCCAGTCAAACTCTCCAGAACCCTGCCCTCTCACCCACACCAGTGTACCAC
CTAATGCAGCGCATCCAATGCCGGCCGCCACTGACCAACAGTGCCTCGGGACTAGGGGTGCTGTCCGGA
CCAGCAGAGACAGATGTTTATCCAGCAGCAGCAGTTCAGCAGCTGTTAAACTCCAGCAGCTCACACCC
GAACAGCATCAGGCCTTCTATACCAGCTGATGCAGCAGCAGCACCACCCGCCTGAGCTCCAGCAGCTGC
AGCTCCCGGGACCCACGCAGATCCCATCAACAATCTCCTTGCAGGTGCTCAGGCGCCTCCACTCCACAC
AGCTACCACCAACCCCTTCTCACCATCCACGGGGACAGCAGCAGCCAGAAGGTCACAAGACTTAGTGAT
AAAACGGGCCTGTAGCTCAAGAGAAAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001252561
Insert Size:	2973 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:	<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>NM_001252561.1</u> , <u>NP_001239490.1</u>
RefSeq Size:	5116 bp

RefSeq ORF: 2973 bp

Locus ID: 17354

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 (3) includes an alternate exon and uses an alternate start codon, compared to variant 1. The encoded isoform (2) is shorter and has a distinct N-terminus, compared to isoform 1. 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.