

Product datasheet for **MC228102**

Mier1 (NM_001286223) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mier1 (NM_001286223) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mier1
Synonyms:	4933425I22Rik; 5830411K19Rik; er1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228102 representing NM_001286223
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGCCATCTGTTGAGTCTTCAAGTCCAGGAGGCTCAGCAACATCAGAGGACCATGAGTTTGATCCAT
 CAGCTGACATGCTGGTTCATGATTTTGATGATGAGCGAACATTAGAAGAAGAAGAAATGATGGAAGGAGA
 GACAAACTTCAGTTCGAAATAGAGGATCTTGCAGGGAAGGCGACATGCCAATCCACGAGCTGCTCAGC
 CTCTATGGTTATGACAGCACTGTTTCGGTTACCTGAGGAAGAGGAGGGAAGAGGAGGAGGGAAGGTG
 AAGATGATGAAGATGCTGATAATGATGATAACAGTGGCTGTAGTGGAGAAAATAAAGAAGAGAATATAAA
 GGATTCATCGGGTCAGGAGGATGAACTCAGTCTTCCAATGATGATCCCTCACAGTCTGTTACTTCCCAA
 GATGCTCAGGAAATAATCCGCCACGTCGATGTAATATTTTGATACAAATAGTAAATAGAAGAAGAT
 CTGAAGAAGATGAAGATTATTTCCCTCAGAAGACTGGAAAAAGGAAATCATGGTGGGCTCCATGTTTCA
 AGCTGAGATTCCAGTTGGTGTGTTGATAGATAAAAGAAAATGAAAAAGTGTATGAAAATGATGATCAGCTT
 CTGTGGGATCCAGAGTGTACCAGAAGAGAAAGTGGTTGCTTTCTTAAGGATGCGTCTAGAAGGACAG
 GGGATGAGAAAGGTGTGGAAGCAATCCCTGAAGGCTCGCATATCAAGACAATGAGCAGGCTTTATATGA
 GTTGGTAAATGCAGCTTTGATACGGAAGAAGCCTTGAGAAGACTGAGATTTAATGTCAAAGCAGCTCGA
 GAGGAGTTATCTGTGTGGACAGAGGAAGAGTGTAGAAATTTTGAGCAAGGCTGAAGGCCTATGGAAAAG
 ATTTTCATCTGATTCAGGCTAATAAAGTCCGAACAAGATCAGTTGGTGAATGTGTAGCATTCTATTACAT
 GTGAAAAAGTCTGAGCGCTATGATTTCTTTGCTCAGCAAACAAGGTTGGAAAAAGAAATATAATCTT
 CATCCTGGTGTAAACGGATTACATGGATCGTCTTTGGATGAAAGTGAAGTGTGCTTCTAGCCGAGCAC
 CATCCCCCTCCCACTGCCTCAATAGCAGTAACAGCCAGTCCGAGAAAGAAGATGGCGTGTGAGCAG
 TAGGAATCAGAACGGTGTCTCATCTAATGGACCAGGAGAAATACTAAACAAAGAAGTAAAAGTTGAA
 GGGTTACATGTTAATGGACCAACAGGTGGAATAAGAAAACCACTTCTTACAGATATGGACTAATGGTT
 ATGAAGCAAATAACCTGACCACTGACCCAAAATTGCCCATATGACTGCAAGAAATGAAAATGATTTTGA
 TGAAAAAATGAGAGACCTGCCAAAAGCGCGGATAAACAGCAGTGGGAAAGAAGTCCGGGCTCATCT
 GAGTTTTCCAGGAAGCAGTCTCACATGGGAAGTTTGAGGAACATGAAAACACGAATGAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001286223
- Insert Size:** 1533 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_001286223.1](#), [NP_001273152.1](#)

RefSeq Size: 4631 bp

RefSeq ORF: 1533 bp

Locus ID: 71148

UniProt ID: [Q5UAK0](#)

Cytogenetics: 4 C6

Gene Summary: Transcriptional repressor regulating the expression of a number of genes including SP1 target genes. Probably functions through recruitment of HDAC1 a histone deacetylase involved in chromatin silencing.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (5) differs in the 5' UTR, lacks an alternate exon in the 5' coding region and initiates translation at an alternate start codon, compared to variant 4. It encodes isoform d, which is shorter and has a distinct N-terminus, compared to isoform c.