

Product datasheet for **MC217471**

Mier1 (NM_027696) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mier1 (NM_027696) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mier1
Synonyms:	4933425I22Rik; 5830411K19Rik; er1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217471 representing NM_027696
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTATGTTTAAATGGTTTACAGACTGTCTCTGGATTCTTTCTGTCAAATTACAAGCCATCTGTTG
 AGTCTTCAAGTCCAGGAGGCTCAGCAACATCAGAGGACCATGAGTTTGATCCATCAGCTGACATGCTGGT
 TCATGATTTTGATGATGAGCGAACATTAGAAGAAGAAGAAATGATGGAAGGAGAGACAACTTCAGTTCT
 GAAATAGAGGATCTTGCAGGGAAGGCGACATGCCAATCCACGAGCTGCTCAGCCTCTATGGTTATGACA
 GCACTGTTTCGGTTACCTGAGGAAGAGGAGGAGGAAGAGGAGGAGGAAAGTGAAGATGATGAAGATGC
 TGATAATGATGATAACAGTGGCTGTAGTGGAGAAAATAAAGAAGAGAATATAAAGGATTCATCGGGTCAG
 GAGGATGAACTCAGTCTCCAATGATGATCCCTCACAGTCTGTTACTTCCCAAGATGCTCAGGAAATAA
 TCCGCCACGTCGATGTAATATTTTGATACAAATAGTAAAATAAGAAGAATCTGAAGAAGATGAAGA
 TTATATCCCTCAGAAGACTGAAAAAGGAAATCATGGTGGGCTCCATGTTTCAAGCTGAGATCCAGTT
 GGTGTTTGTAGATACAAAGAAAAAGAAAAGTGTATGAAAATGATGATCAGCTTCTGTGGGATCCAGAGT
 GTTACCAGAAGAGAAAGTGGTTGTCTTCTTAAGGATGCGTCTAGAAGGACAGGGGATGAGAAAGTGT
 GGAAGCAATCCCTGAAGGCTCGCATATCAAAGACAATGAGCAGGCTTTATATGAGTTGGTTAAATGCAGC
 TTTGATACGGAAGAAGCCTTGAGAAGACTGAGATTTAATGTCAAAGCAGCTCGAGAGGAGTTATCTGTGT
 GGACAGAGGAAGAGTGTAGAAATTTTGAGCAAGGGCTGAAGGCCTATGGAAAAGATTTTCATCTGATTCA
 GGCTAATAAAGTCCGAACAAGATCAGTTGGTGAATGTGTAGCATTCTATTACATGTGAAAAAGTCTGAG
 CGCTATGATTTCTTTGCTCAGCAACAAGTTTGGAAAAAAGAAATATAATCTTCATCCTGGTGTAAACGG
 ATTACATGGATCGTCTTTGGATGAAAGTGAAAGTGTCTTCTAGCCGAGCACCATCCCCCTCCCA
 TGCTCAAATAGCAGTAACAGCCAGTCCGAGAAAGAAGATGGCGCTGTCAGCAGTAGGAATCAGAACGGT
 GTCTCATCTAATGGACCAGGAGAAATACTAAACAAGAAGAAAGTAAAAGTTGAAGGGTTACATGTTAATG
 GACCAACAGGTGGAAATAAGAAACCACTTCTTACAGATATGGACACTAATGGTTATGAAGCAAATAACCT
 GACCACTGACCAAAAACCTGCCCATATGACTGCAAGAAATGAAAATGATTTTGATGAAAAAATGAGAGA
 CCTGCCAAAAGGCGCGGATAAACAGCAGTGGGAAAGAAGTCCGGGCTCATCTGAGTTTTTCCAGGAAG
 CAGTCTCACATGGGAAGTTGAGGAACATGAAAACACGAATGAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_027696
- Insert Size:** 1587 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:

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_027696.3](#), [NP_081972.2](#)

RefSeq Size: 4838 bp

RefSeq ORF: 1587 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 (1) differs in the 5' UTR, initiates translation at an alternate start codon and lacks an alternate exon in the 5' coding region, compared to variant 4. Variants 1 and 3 encode the same isoform (a), which is shorter and has a distinct N-terminus, compared to isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.