

## Product datasheet for **MR230313**

### **Mier1 (NM\_001286223) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mier1 (NM_001286223) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR230313 representing NM\_001286223  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCCATCTGTTGAGTCTTCAAGTCCAGGAGCTCAGCAACATCAGAGGACCATGAGTTTGATCCAT  
 CAGCTGACATGCTGGTTCATGATTTTGATGATGAGCGAACATTAGAAGAAGAAGAAATGATGGAAGGAGA  
 GACAAACTTCAGTTCTGAAATAGAGGATCTTGCAGGGAAGGCGACATGCCAATCCACGAGCTGCTCAGC  
 CTCTATGGTTATGACAGCACTGTTTCGGTTACCTGAGGAAGAGGAGGGAAGAGGAGGAGGGAAGGTG  
 AAGATGATGAAGATGCTGATAATGATGATAACAGTGGCTGTAGTGGAGAAAATAAAGAAGAGAATATAAA  
 GGATTCATCGGGTCAGGAGGATGAACTCAGTCTTCCAATGATGATCCCTCACAGTCTGTTACTTCCCAA  
 GATGCTCAGGAAATAATCCGCCACGTCGATGTAATATTTTGATACAAATAGTGAATAGAAGAAGAT  
 CTGAAGAAGATGAAGATTATTTCCCTCAGAAGACTGGAAAAAGGAAATCATGGTGGGCTCCATGTTTCA  
 AGCTGAGATTCAGTTGGTGTGTTGATAGATACAAAGAAAATGAAAAAGTGTATGAAAATGATGATCAGCTT  
 CTGTGGGATCCAGAGTGTACCAGAAGAGAAAGTGGTTGTCTTTCTTAAGGATCGCTAGAAAGGACAG  
 GGGATGAGAAAGGTGTGGAAGCAATCCCTGAAGGCTCGCATATCAAGACAATGAGCAGGCTTTATATGA  
 GTTGGTAAATGCAGCTTTGATACGGAAGAAGCCTTGAGAAGACTGAGATTTAATGTCAAAGCAGCTCGA  
 GAGGAGTTATCTGTGTGGACAGAGGAAGAGTGTAGAAATTTGAGCAAGGGCTGAAGGCCTATGGAAAAG  
 ATTTTCATCTGATTCAGGCTAATAAAGTCCGAACAAGATCAGTTGGTGAATGTGTAGCATTCTATTACAT  
 GTGAAAAAGTCTGAGCGCTATGATTTCTTTGCTCAGCAAACAAGTTTGGAAAAAGAAATATAATCTT  
 CATCCTGGTGTAAACGGATTACATGGATCGTCTTTGGATGAAAGTGAAGTGTGCTTCTAGCCGAGCAC  
 CATCCCCCTCCCACTGCCTCAATAGCAGTAAACAGCCAGTCCGAGAAAAGAAAGTGGCGTGTGAGCAG  
 TAGGAATCAGAACGGTGTCTCATCTAATGGACCGAGGAGAAATACTAAACAAGAAGAAAGTAAAGTTGAA  
 GGGTTACATGTTAATGGACCAACAGGTGGAATAAGAAAACCACTTCTTACAGATATGGACTAATGGTT  
 ATGAAGCAAATAACCTGACCACTGACCCAAAATGCCCCATGACTGCAAGAAATGAAAATGATTTTGA  
 TGAAAAAATGAGAGACCTGCCAAAAGCGCGGATAAACAGCAGTGGGAAAGAAAGTCCGGGCTCATCT  
 GAGTTTTTCCAGGAAGCAGTCTCACATGGGAAGTTTGGGAACATGAAAACACGAATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230313 representing NM\_001286223  
 Red=Cloning site Green=Tags(s)

MLPSVESSPGGSATSEDFDPSADMLVHDFDDERTLEEEEMMEGETNFSSIEIDLAREGDMPHHELLS  
 LYGDSTVRLPEEEEEEEEEEGEDDEDADNDDNSGCSGENKEENIKDSSGQEDETQSSNDPQSQSVTSQ  
 DAQEIIIRPRRCKYFDNSEIEEESEEDDYIPSEDWKKEIMVGSFMFQAEIPVGVCRYKENEKVYENDDQL  
 LWDPECLPEEKVVVFLKASRRTGDEKGVVAIPEGSHIKDNEQALYELVKCSFDTEALRRLRFNVKAAR  
 EELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRTRSVGECVAFYMWKKSERYDFFAQQTRFGKKYNL  
 HPGVTDYMDRLLDESESAASSRAPSPPTASNSNSQSEKEDGAVSSRNQNGVSSNGPGEILNKEEVKVE  
 GLHVNPTGGNKKPLLTDMDTNGYEANLLTDPKLAHMTARNENDFDEKNERPAKRRRINSSGKESPGSS  
 EFFQEAVSHGKFEEHENTND

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001286223

**ORF Size:** 1530 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

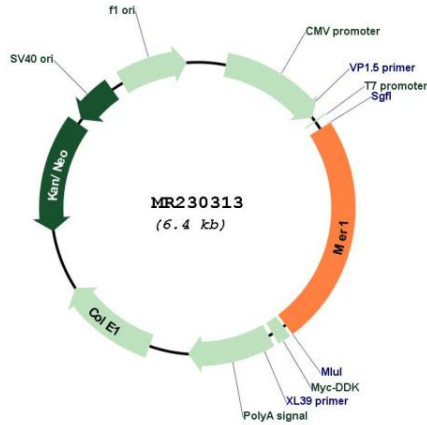
**UniProt ID:** [Q5UAK0](#)

**Cytogenetics:** 4 C6

MW: 58.3 kDa

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]

**Product images:**



Circular map for MR230313