

Product datasheet for **MR217117**

Mier1 (NM_001039081) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mier1 (NM_001039081) 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:

>MR217117 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCCATCTGTTGAGTCTTCAAGTCCAGGAGGCTCAGCAACATCAGAGGACCATGAGTTTGATC
 CATCAGCTGACATGCTGGTTCATGATTTTGATGATGAGCGAACATTAGAAGAAGAAGAAATGATGGAAGG
 AGAGACAAACTTCAGTTCTGAAATAGAGGATCTTGCGAGGGAAGGCGACATGCCAATCCACGAGCTGCTC
 AGCCTCTATGTTATGACAGCACTGTTCCGGTTACCTGAGGAAGAGGAGGAGGAAGAGGAGGAGGAGGAAG
 GTGAAGATGATGAAGATGCTGATAATGATGATAACAGTGGCTGTAGTGGAGAAAAAAAGAAGAGAATAT
 AAAGGATTCATCGGGTCAGGAGGATGAACTCAGTCTTCCAATGATGATCCCTCACAGTCTGTTACTTCC
 CAAGATGCTCAGGAAATAATCCGCCACGTCGATGTAATATTTTGATACAAATAGTAAATAGAAGAAG
 AATCTGAAGAAGATGAAGATTATATCCCTCAGAAGACTGGAAAAAGGAAATCATGGTGGCTCCATGTT
 TCAAGCTGAGATCCAGTTGGTGTGTTAGATACAAAGAAAATGAAAAAGTGTATGAAAAATGATGATCAG
 TTCTGTGGGATCCAGAGTGTACCAGAAGAGAAAGTGGTTGTCTTTCTTAAGGATGCGCTAGAAAGGA
 CAGGGGATGAGAAAGGTGTGGAAGCGATCCCTGAAGGCTCGCATATCAAAGACAATGAGCAGGCTTTATA
 TGAGTTGGTTAAATGCAGCTTTGATACGGAAGAAGCCTTGAGAAGACTGAGATTTAATGTCAAAGCAGCT
 CGAGAGGAGTTATCTGTGTGGACAGAGGAAGAGTGTAGAAATTTTGAGCAAGGGCTGAAGGCCTATGGAA
 AAGATTTTCATCTGATTCAGGCTAATAAAGTCCGAACAAGATCAGTTGGTGAATGTGTAGCATTCTATTA
 CATGTGAAAAAGTCTGAGCGCTATGATTTCTTTGCTCAGCAACAAGGTTTGGAAAAAGAAATATAAT
 CTTTCATCTGGTGAACGGATTACATGGATCGTCTTTGGATGAAAGTGAAGTGTCTCTAGCCGAG
 CACCATCCCCCTCCACTGCCTCAAAATAGCAGTAACAGCCAGTCCGAGAAAGAAGATGGCGCTGTCAG
 CAGTAGGAATCAGAACGGTGTCTCATCTAATGGACCAGGAGAAATACTAAACAAAGAAGAAGTAAAAGTT
 GAAGGGTTACATGTTAATGGACCAACAGGTGGAATAAGAAACCCTTCTTACAGATATGGACACTAATG
 GTTATGAAGCAAAATAACCTGACCACTGACCCAAAACCTTGCCCATATGACTGCAAGAAATGAAATGATTT
 TGATGAAAAAAATGAGAGACCTGCCAAAAGCGCGGATAAACAGCAGTGGGAAAGAAAGTCCGGGCTCA
 TCTGAGTTTTCCAGGAAGCAGTCTCACATGGGAAGTTTGAGGAACATGAAAACACGAATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217117 protein sequence
 Red=Cloning site Green=Tags(s)

MAEPSVESSSPGGSATSEDFDFPSADMLVHDFDDERTLEEEEMMEGETNFSSEIEDLAREGDMPHELL
 SLYGYDSTVRLPEEEEEEEEEEGEDDEDADNDNSGCSGENKEENIKDSSGQEDETQSSNDDPSQSVTS
 QDAQEIIIRPRRKYFDTNSEIEESEEDEDYIPSEDWKKEIMVGSFQAEIPVGVCRYKENEKVYENDDQ
 LLWDPECLPEEKVVVFLKDSRRTGDEKVEAIPESHKIDNEQALYELVKCSFDTEALRRLRFNVKAA
 REELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRTRSVGECVAFYMWKKSERYDFFAQQTRFGKKKYN
 LHPGVTDYMDRLLDESESAASSRAPSPPTASNSNSQSEKEDGAVSSRNQNGVSSNGPGEILNKEEVK
 EGLHVNPTGGNKKPLLTDMDTNGYEANNLTDPKLAHMTARNENDFDEKNERPAKRRRINSSGKESPGS
 SEFFQEAVSHGKFEHENTND

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001039081

ORF Size: 1536 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_001039081.1](#), [NM_001039081.2](#), [NP_001034170.1](#)

RefSeq Size: 4650 bp

RefSeq ORF: 1536 bp

Locus ID: 71148

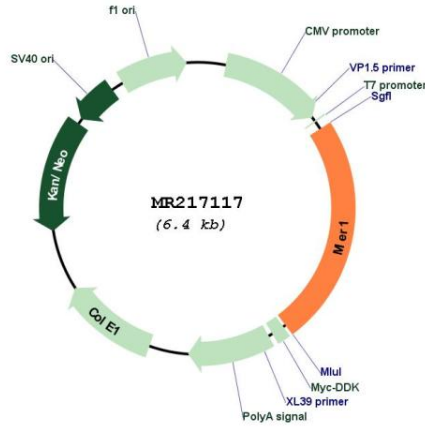
UniProt ID: [Q5UAK0](#)

Cytogenetics: 4 C6

MW: 57.9 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 MR217117