

Product datasheet for **MR218535**

Mier1 (NM_027696) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mier1 (NM_027696) 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:

>MR218535 representing NM_027696
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTATGTTTAAATTGGTTTACAGACTGTCTCTGGATTCTTTCTGTCAAATTACAAGCCATCTGTTG
 AGTCTTCAAGTCCAGGAGCTCAGCAACATCAGAGGACCATGAGTTTGATCCATCAGCTGACATGCTGGT
 TCATGATTTTGTGATGAGCGAACATTAGAAGAAGAAGAAATGATGGAAGGAGAGACAACTTCAGTTCT
 GAAATAGAGGATCTTGCAGGGAAGGCGACATGCCAATCCACGAGCTGCTCAGCCTCTATGGTTATGACA
 GCACTGTTTCGGTTACCTGAGGAAGAGGAGGAGGAAGAGGAGGAGGAGGAAGGTGAAGATGATGAAGATGC
 TGATAATGATGATAACAGTGGCTGTAGTGGAGAAAATAAAGAAGAGAATATAAAGGATTCATCGGGTCAG
 GAGGATGAACTCAGTCTTCCAATGATGATCCCTCACAGTCTGTTACTTCCAAGATGCTCAGGAAATAA
 TCCGCCACGTCGATGTAATATTTTGATACAAATAGTGAATAGAAGAAGAAATGAAGAAGATGAAGA
 TTATATCCCTCAGAAGACTGAAAAAGGAAATCATGGTGGGCTCCATGTTTCAAGCTGAGATCCAGTT
 GGTGTTTGTAGATACAAAGAAAATGAAAAAGTGTATGAAAATGATGATCAGCTTCTGTGGGATCCAGAGT
 GTTACCAGAAGAGAAAGTGGTTGTCTTCTTAAGGATGCGTCTAGAAGGACAGGGGATGAGAAAGGTG
 GGAAGCAATCCCTGAAGGCTCGCATATCAAAGACAATGAGCAGGCTTTATAGTGGTTAAATGCAGC
 TTTGATACGGAAGAAGCCTTGAGAAGACTGAGATTTAATGTCAAAGCAGCTCGAGAGGAGTTATCTGTGT
 GGACAGAGGAAGAGTGTAGAAATTTTGAGCAAGGGCTGAAGGCCTATGAAAAAGATTTTCATCTGATTCA
 GGCTAATAAAGTCCGAACAAGATCAGTTGGTGAATGTGTAGCATTCTATTACATGTGAAAAAGTCTGAG
 CGCTATGATTTCTTTGCTCAGCAACAAGTTTGGAAAAAAGAAATAAATCTTCATCCTGGTGTAAACGG
 ATTACATGGATCGTCTTTGGATGAAAGTGAAAGTGTCTTCTAGCCGAGCACCATCCCCCTCCCAC
 TGCTCAAAATAGCAGTAACAGCCAGTCCGAGAAAGAAGATGGCGCTGTCAGCAGTAGGAATCAGAACGGT
 GTCTCATCTAATGGACCAGGAGAAATACTAAACAAGAAGAAGTAAAAGTTGAAGGGTTACATGTTAATG
 GACCAACAGGTGGAAATAAGAAACCACTTCTTACAGATATGGACACTAATGGTTATGAAGCAAATAACCT
 GACCACTGACCCAAAACCTGCCCATATGACTGCAAGAAATGAAAATGATTTTGTGAAAAAATGAGAGA
 CCTGCCAAAAGGCGCGGATAAACAGCAGTGGGAAAGAAGTCCGGGCTCATCTGAGTTTTTCCAGGAAG
 CAGTCTCACATGGGAAGTTGAGGAACATGAAAACACGAATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218535 representing NM_027696
 Red=Cloning site Green=Tags(s)

MFMFNWF TDCLWILFLSNYKPSVESSSPGGSATSEDFHFDPSADMLVHDFDDETL EEEEEEMMEGETNFSS
 EIEDLAREGDMPIHELLSLYGYDSTVRLPEEEEEEEEEEGEDDEDADNDNDNSGCSGENKEENIKDSSGQ
 EDETQSSNDPSQSVTSQDAQEIIIRPRRCKYFDTNSEIEEESEDEDYIPSEDWKKEIMVGSFMFQAEIPV
 GVCRYKENEKVYENDDQLLWDPECLPEEKVVVFLKDASRRTGDEKGV EAIPEGSHIKDNEQALYELVKCS
 FDTEELRRLRFNVKAAREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRTRSVGECVAFYMWKSE
 RYDFFAQQTRFGKKYNLHPGVTDYMDRLLDESESAASSRAPSPPTASNSSNSQSEKEDGAVSSRNQNG
 VSSNGPGEILNKEEVKVEGLHVNGPTGGNKPLLTDMDTNGYEANL TDPKLAHMTARNENDFDEKNER
 PAKRRRINSSGKESPGSSEFFQEA VSHGKFEEHENTND

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_027696

ORF Size: 1584 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_027696.3](#), [NP_081972.2](#)
RefSeq Size: 4758 bp

RefSeq ORF: 1587 bp

Locus ID: 71148

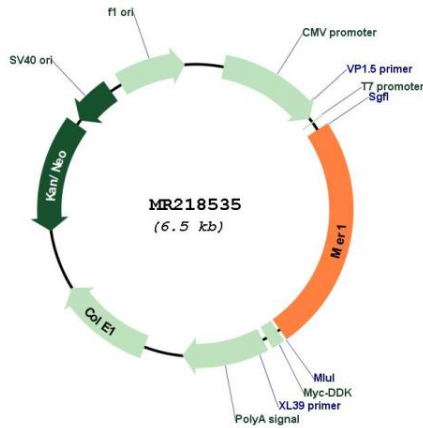
UniProt ID: [Q5UAK0](#)

Cytogenetics: 4 C6

MW: 60.6 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 MR218535