

Product datasheet for **MG218535**

Mier1 (NM_027696) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mier1 (NM_027696) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mier1
Synonyms:	4933425I22Rik; 5830411K19Rik; er1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218535 representing NM_027696
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTATGTTTAAATTGGTTTACAGACTGTCTCTGGATTCTTTCTGTCAAATTACAAGCCATCTGTTG
 AGTCTTCAAGTCCAGGAGCTCAGCAACATCAGAGGACCATGAGTTTGATCCATCAGCTGACATGCTGGT
 TCATGATTTTGTATGATGAGCGAACATTAGAAGAAGAAGAATGATGGAAGGAGAGACAACTTCAGTTCT
 GAAATAGAGGATCTTGCAGGGAAGGCGACATGCCAATCCACGAGCTGCTCAGCCTCTATGGTTATGACA
 GCACTGTTTCGGTTACCTGAGGAAGAGGAGGAGGAAGAGGAGGAGGAGGAAGGTGAAGATGATGAAGATGC
 TGATAATGATGATAACAGTGGCTGTAGTGGAGAAAATAAAGAAGAGAATATAAAGGATTCATCGGGTCAG
 GAGGATGAACTCAGTCTTCCAATGATGATCCCTCACAGTCTGTTACTTCCAAGATGCTCAGGAAATAA
 TCCGCCACGTCGATGTAATATTTTGTACAAAATAGTAAAATAAGAAGAATCTGAAGAAGATGAAGA
 TTATATCCCTCAGAAGACTGAAAAAGGAAATCATGGTGGGCTCCATGTTTCAAGCTGAGATCCAGTT
 GGTGTTTGTAGATACAAAAGAAAATGAAAAAGTGTATGAAAATGATGATCAGCTTCTGTGGGATCCAGAGT
 GTTTACAGAAGAGAAAGTGGTTGTCTTCTTAAGGATGCGTCTAGAAGGACAGGGGATGAGAAAGGTG
 GGAAGCAATCCCTGAAGGCTCGCATATCAAAGACAATGAGCAGGCTTTATATGAGTTGGTTAAATGCAGC
 TTTGATACGGAAGAAGCCTTGAGAAGACTGAGATTTAATGTCAAAGCAGCTCGAGAGGAGTTATCTGTGT
 GGACAGAGGAAGAGTGTAGAAATTTTGAGCAAGGGCTGAAGGCCTATGAAAAAGATTTTCATCTGATTCA
 GGCTAATAAAGTCCGAACAAGATCAGTTGGTGAATGTGTAGCATTCTATTACATGTGAAAAAGTCTGAG
 CGCTATGATTTCTTTGCTCAGCAACAAGTTTGGAAAAAAGAAATATAATCTTCATCTGGTGTAAACGG
 ATTACATGGATCGTCTTTTGGATGAAAGTGAAGTGTCTTCTAGCCGAGCACCATCCCCCTCCCAC
 TGCTCAAATAGCAGTAACAGCCAGTCCGAGAAAGAAGATGGCGCTGTCAGCAGTAGGAATCAGAACCGGT
 GTCTCATCTAATGGACCAGGAGAAATACTAAACAAGAAGAAGTAAAAGTTGAAGGTTACATGTTAATG
 GACCAACAGTGGAAATAAGAAACCACTTCTTACAGATATGGACACTAATGGTTATGAAGCAAATAACCT
 GACCACTGACCCAAAACCTGCCCATATGACTGCAAGAAATGAAAATGATTTTGTAAAAAATGAGAGA
 CCTGCCAAAAGGCGCGGATAAACAGCAGTGGGAAAGAAGTCCGGGCTCATCTGAGTTTTTCCAGGAAG
 CAGTCTCACATGGGAAGTTGAGGAACATGAAAACACGAATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218535 representing NM_027696
 Red=Cloning site Green=Tags(s)

MFMFNWF TDCLWILFLSNYKPSVESSSPGGSATSEDFEFDPSADMLVHDFDERTLEEEEMMEGETNFSS
 EIEDLAREGDMP IHELLSLYGYDSTVRLPEEEEEEEEEEGEDDEDADNDNDNSGCSGENKEENIKDSSGQ
 EDETQSSNDPSQSVTSQDAQEIIRPRRKYFDTNSEIEEESEDEDYIPSEDWKKEIMVGSFMQAEIPV
 GVCRYKENEKVYENDQLLWDPECLPEEKVVVFLKDA SRRTGDEKGV EAIPEGSHIKDNEQALYELVKCS
 FDTEELRRLRFNVKAAREELSVWTEEECRNFEQGLKAYGKDFHLIQANKVRTRSVGECVAFYMWKSE
 RYDFFAQQTRFGKKYNLHPGVTDYMDRLLDESESAASSRAPSPPTASNSNSQSEKEDGAVSSRNQNG
 VSSNGPGEILNKEEVKVEGLHVNGPTGGNKKPLLTDMDTNGYEANL TDPKLAHMTARNENDFDEKNER
 PAKRRRINSSGKESPGSSEFFQEAVSHGKFEHENTND

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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

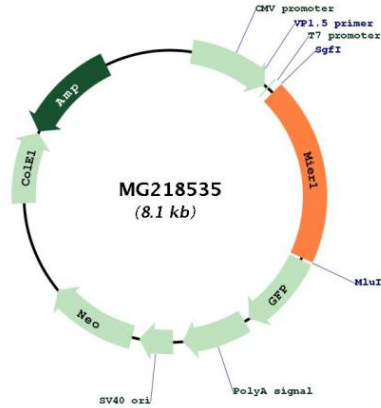
UniProt ID: [Q5UAK0](#)

Cytogenetics: 4 C6

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 MG218535