

Product datasheet for **MR219563**

Mamstr (NM_172418) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mamstr (NM_172418) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mamstr
Synonyms:	2810022D01Rik; 5430432N15Rik; AW743872; Mastr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219563 representing NM_172418
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGACCCTGGCAGCCTCCTCCCAGCGCTCCCAATCATCCGTTCCAAGTTCGCTCTGCTCAGCTTC
 GGATCCACAGACGAATCAAGACTGCACCTCTGATTGATCCATGGATCTCAGCCTCAGGCCAGCTCT
 GGCTCCAGCTTTGCCACTGTTCTGCCTCTTTCTTGTGAGCCCTGGCGTCTTGTCCCCTGAGCCAGCA
 TATTGCTTGGAGGGCTCCAAAGAAGGAATCTCCAAGAATCCCAACATTGGAAGGAGCCTAAGGTCA
 GGGGGAATTGACATATCACCTGTACATGCCTCCAGAACAGAGACAAGGGCCAGGGCAAATCTGCAAGT
 TGAGAGGTCAACCCTGGTCCCCGACCCACCTCTTTGGGAAAAGAATTCACAGAGACCACATCCTCGG
 ATGAAGCCTTCTCAGCAGGAGTCTCCAGTCCCTCGCCCCCTTACACAAGCTGGAATTCAGACCTTA
 AACTGGAAGAGCTGACGGTCTCAGAGCTTAGGCAGCAGCTGCGCTGCGGGGACTCCCGGTGTCCGGGAC
 CAAAGCGATGCTCCTGGAGCGCATGCGTGGTGGCACCCCGCCAGAGAACGGCCGAAGCCAGGCGAGAG
 GACAAAGAGGCCGCTGCTCCCTGGCCCCGCTCAAGCCCAAGGCGCTGGGAATCTCGGCTACCCAGCA
 CGGTGAAGGCAAGCGCGACAAATCGTAGGCTGAAGTTTCTGGAGCTACGGATCCCTGGGAGCAGCTCC
 CGCTCCGGCTTCTGTTCTGCTCCCACTCCCTCTCCAGCTTTGGCTCCGACTCCGACTCCAGCTCCAGTT
 CCAGCTCCAGTCCAGTCCCTTTCCGACACCTCCAGTAGCCTGACTCTGGAGGAGGAGCTGCAGGAAG
 CGATCCGTAGGGCGCAGCTGCTTCCAAACCGCAACATCGATGACATCCTGGAAGACCAAGTGGAGCCAGA
 TGACCTGCTGCTCCCGTGCCCTGGACTTCCCTGGCTCATTTGACCTGCTGTCTCCCTCCCGGACTCG
 GAAGGCTTCTCTCCGTCTTCTTCTTCACTACCGTCCCCACAAGCTCCCTGTCCCTTCTCCAAGGG
 CCCTCACTGATTCTTGGACTGGCTGGAGGCCTTGAGTGGGGTCCACCCTGGGCTCTGGGCCTCCCGG
 CCCAGCATCTTCTCTGCGGACCTATCTGATCCAGTGGCAGTCTGCTCTGGGAATCTGCTCCAGATCCT
 TGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219563 representing NM_172418
 Red=Cloning site Green=Tags(s)

MTLAASSQRSQIIRSKFRSVLQLRIHRRNQDCTSDSDPWISASGPALAPALPTVPASFLVSPGVLSPPEA
 YCPWRAPKKESPKNSQHWKEPKVRGNLTYHLYMPPEQRQGPANLQVERSTLGPPDPPLWEKNSQRPHPR
 MKPSSAGVSSPSPSHKLELQTLKLEELTVSELRQQLRLRGLPVSGTKAMLLERMGGTPPRERPKPRRE
 DKEAAAPWRLKPKALGTTRLPSTVKASATNRRLLKFSGATDPLGAAPAPASVPAPTPSPALAPTPTAPV
 PAPAPAFPPTPPASLTLEELQEAIRRAQLLPNRNIDILEQVEPDDLPPVPLDFPGSFDLLSPSPDS
 EGFSSVFSSSLPSPSSLSPSPRALTDSLWLEALSGGPPLGSGPPGPSIF SADLSDPSGSLWELLPDP
 W

TRTRPLE**QKLISEEDLA**AND**ILDYKDDDDK**V

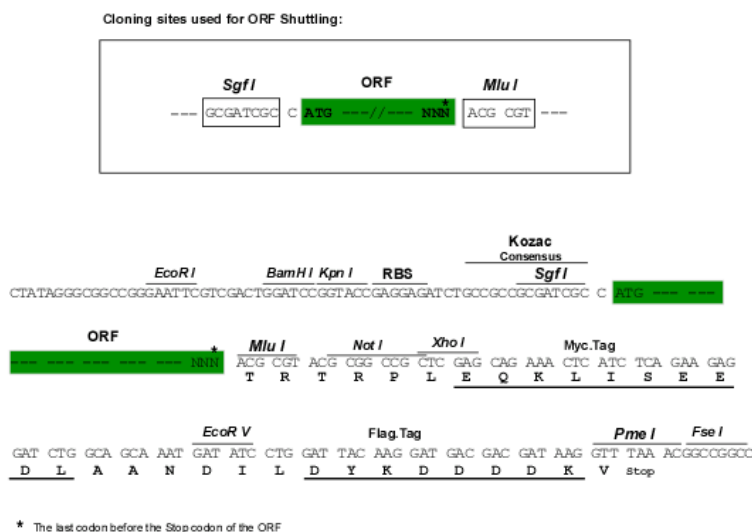
Chromatograms:

https://cdn.origene.com/chromatograms/mm9079_d06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_172418

ORF Size: 1263 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_172418.2](#), [NP_766006.2](#)

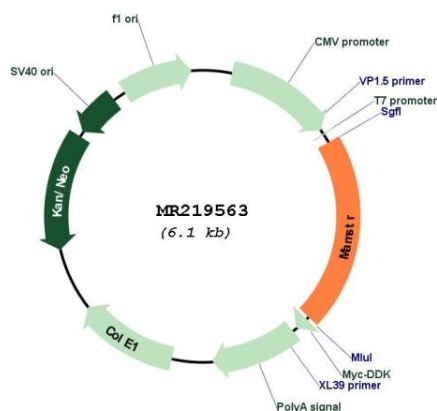
RefSeq Size: 2179 bp

RefSeq ORF: 1266 bp

Locus ID: 74490

UniProt ID: [Q0ZCJ7](#)
Cytogenetics: 7 B3
MW: 45.4 kDa
Gene Summary: Transcriptional coactivator. Stimulates the transcriptional activity of MEF2C. Stimulates MYOD1 activity in part via MEF2, resulting in an enhancement of skeletal muscle differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219563