

Product datasheet for MR222079

Msc (NM_010827) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Msc (NM_010827) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Msc
Synonyms: bHLHa22; MyoR
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222079 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCACCGGCTCGGTGAGTGACCCGAAGACTCGGAGATGAGGGGGCTGCAGAGGGTCTACCCGGCCC
 CGGCCTCAAGAGGCCGCCCTGCTCCGCATGGAGCGGGTTACGGCTCGCCAGCGACATTTCTCTGC
 GGAAGAGGAGGACGGTGAAGAGGAGCCCGGCTCCCTGGGAGCCGGGAGGATGCAAGAGGAAGCGGCTC
 CGTGGGGCTGACGCTGGCGGCGCAGGTGGCCGCGCAGGCGGTGCGGGGAAGAAGCCGCTCCCGCCTAAGG
 GCTCGGCCGAGAGTGAAGCAGTCGCAGCGGAATGCGGCCAACGCCCGCAACGCGCCCGGATGCGCGT
 GCTGAGCAAAGCCTTCTCCAGACTGAAGACCAGCCTGCCCTGGGTGCCGCCGACACCAAGCTTTCCAAA
 CTGGACACGCTGCGCCTGGCTTCCAGCTACATCGCGCACCTGCGCCAGCTGCTGCAGGAGGACCGCTACG
 AGGACAGCTATGTGCACCTGTGAACCTGACGTGGCCATTGCTGGTCTCTGGACGCCAGACTCTGACAG
 CAAAGACGTTTCTGCAGCCAACAGGCTTTGTGGAACCTCCGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222079 protein sequence
 Red=Cloning site Green=Tags(s)

MSTGSVSDPEDSEMRLQRVYPAPASKRPPLLRMERGYGSPSDISSAEEEDGEEEPGSLGAAGGCKRKRL
 RGADAGGAGGRAGGAGKKPLPPKGSAAECKQSRNAANARERARMVLSKAFSRLKTSLPWVPPDTKLSK
 LDTLRLASSYIAHLRQLLQEDRYEDSYVHPVNLWPFVVSGRPDSKDVSAANRLCGTSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010827

ORF Size: 606 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_010827.2](#), [NP_034957.1](#)

RefSeq Size: 1717 bp

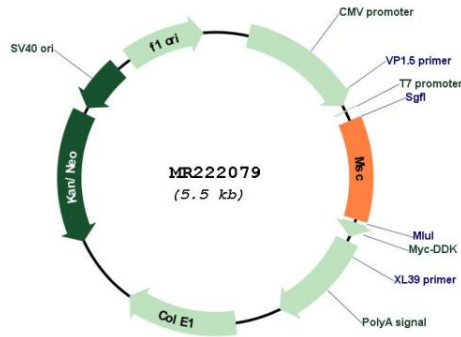
RefSeq ORF: 606 bp

Locus ID: 17681

UniProt ID: [O88940](#)

Cytogenetics: 1 4.5 cM
 MW: 21.5 kDa
 Gene Summary: Transcription repressor that blocks myogenesis and activation of E-box dependent muscle genes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222079