

## Product datasheet for **RC239590**

### **MRTFA (NM\_001282662) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MRTFA (NM_001282662) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRTFA
Synonyms:	BSAC; MAL; MKL; MKL1; MRTF-A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239590 representing NM\_001282662  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGCCTTTGAAAAGTCCAGCCGCATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGCCAGGACAGAGG  
 ACTATCTCAAACGGAAGATTTCGTTCCCGCCGGAGAGATCGGAGCTGGTCAGGATGCACATTTTGAAGA  
 GACCTCGGCTGAGCCATCCCTCCAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGACCTC  
 AATGAGAAGATTGCACAGAGGCCTGGCCCCATGGAGCTGGTGGAGAAGAACATCCTTCTGTTGAGTCCA  
 GCCTGAAGGAAGCCATCATTGTGGGCCAGGTGAATATCCCAAAGTAGCAGACAGCTTTCCTTCGATGA  
 GGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCCAGCCATGAGTCCCAGGGTCTGTGCCGTCACCC  
 CTGGAGGCCCGAGTCAGCGAACCCTGCTCAGTCCACCTCTGCATCCCCACCCAGGTTGTGTCTCAAC  
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 GCTGCCTCCAGCCTACCAATGGAACCACTATCCCCACTGCCAAGTCCACCCCACTCATTAAAGCAA  
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 AGAAGTCAAGTACCACAGTACATCCCCCGGACCAGAAAGCAGGACAGGGGGCACCCCCCATGGACTC  
 ATCCTACGCCAAGATCCTGCAGCAGCAGAGCTTTCCTCCAGCTGCAGATCCTCAACCAGCAGCAGCAG  
 CAGCACCACAACCTACCAGGCCATCCTGCCTGCCCGCCAAAGTACAGCAGGCGAGGCCCTGGGAAGCAGCG  
 GGACCCCCAGTACGCAGCCTCTCCACTACCAATAGCAGCTCCAGCTCGGGCGCCCTGGGCCCTGTGG  
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 GCCTCGCCACTGCAGATCCTCGTGAAGGAGGAGGGCCCCGGGCCGGTCTGTTGCCTGAGCCCTGGGG  
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 GACGCGCATGCTCCGGCAGAAGCAGCAGCTGGTGGAGCGGCTCAAGCTGCAGCTGGAGCAGGAGAAGCGA  
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 CCACATAGACCCTTGTGCTGTGGCCCCGGGGCCCCCGTCCGTGGTGGTGAAGCAGGAAGCCTTGCAGCCT  
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 CACCTCCACCCCTCATCACCGACTCCACAGGGACCCACCTTGTCTCACCGTGACCAATAAGAATGCAGA  
 CAGCCCTGGCCTGTCCAGTGGGAGCCCCAGCAGCCCTCGTCCCAGCCTGGCTCTCCAGCGCCTGCCCC  
 TCTGCCAGATGGACCTGGAGCACCCACTGCAGCCCTCTTTGGGACCCCACTTCTCTGCTGAAGAAGG  
 AACACCTGGCTATGAGGAAGCCATGAGCCAGCAGCCAAACAGCAGGAAAATGGTTCCTCAAGCCAGCA  
 GATGGACGACCTGTTTGACATTCTATTAGAGCGGAGGTAACCCAGAAAATTTACAGAGATTTCAAGGA  
 GCCGCCATCCCTGCCAGGAAGGAGAAGCCATCCCCGAAGACAGTCTGTGGGTCCCCCTGGCAGCACAG  
 CCATCACCTTCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239590 representing NM\_001282662  
 Red=Cloning site Green=Tags(s)

MPPLKSPAAFHEQRRSLERARTEDYLKRKIRSRPERSELVRMHILEETSAEPSLQAKQLKLRARLADDL  
 NEKIAQRPGMELVEKNILPVESSLKEAIIVGQVNYPKVADSSSFDESDSAL SPEQPASHESQGSVPS  
 LEARVSEPLL SATSASPTQVVSQ LPMGRDSREMLFLAEQPPLPPPPLPPSLTNGTTIPTAKSTPTLIKQ  
 SQPKSASEKSQRSKKAKELKPKVKLKYHQYIPPDQKQDRGAPPMDSYAKILQQQLFLQLQILNQQQ  
 QHHNYQAILPAPPKSAGEALGSSGTPPVRSLSTTNSSSSGAGPGCLARQNSTSLTGKPGALPANLDDM  
 KVAELKQELKLRSLPVSGTKTELIERL RAYQDQISPVPGAPKAPAATSILHKAGEVVVAFPAARLSTGPA  
 LVAAGLAPAEVVVATVASSGVVVFSTGTPPVSPTPSERSLLSTGDENSTPGDTFGEMVTSPLTQLTLQ  
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 AQQPAPAPAPLGTVPVKQENSFSSCQLSQQLGPAHPFNPSLAAPATNHIDPCAVAPGPPSVVVKQEQALQP  
 EPEVPAPQLLLGPQPSLIGKVAPPTLITDSTGTHLVLTVTNNADSPGLSSGSPQQPSSQPGSPAPAP  
 SAQMDLEHPLQPLFGTPTSLKKKEPPGYEAMSQPKQEQENGSSSQMDDLFDILIQSGGNPRNFSRFQG  
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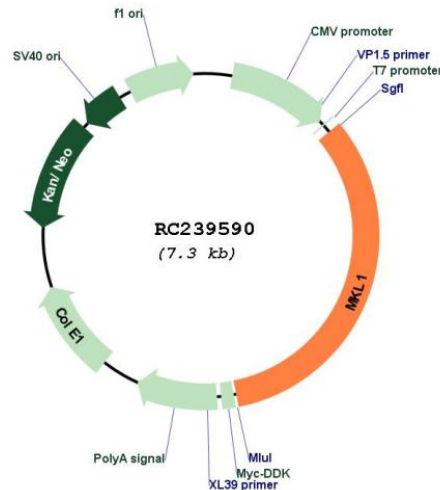
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001282662

**ORF Size:** 2394 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\\_001282662.1](#), [NP\\_001269591.1](#)

**RefSeq Size:** 4560 bp

**RefSeq ORF:** 2697 bp

**Locus ID:** 57591

**Cytogenetics:** 22q13.1-q13.2

**Protein Families:** Transcription Factors

**MW:** 85.5 kDa

**Gene Summary:** The protein encoded by this gene interacts with the transcription factor myocardin, a key regulator of smooth muscle cell differentiation. The encoded protein is predominantly nuclear and may help transduce signals from the cytoskeleton to the nucleus. This gene is involved in a specific translocation event that creates a fusion of this gene and the RNA-binding motif protein-15 gene. This translocation has been associated with acute megakaryocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]