

## Product datasheet for **RG239590**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MRTFA (NM_001282662) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRTFA
Synonyms:	BSAC; MAL; MKL; MKL1; MRTF-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239590 representing NM\_001282662.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCGCCTTTGAAAAGTCCAGCCGCATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGGCCAGGACAGAG
GACTATCTCAAACGGAAGATTTCGTTCCCGCCGGAGAGATCGGAGCTGGTCAGGATGCACATTTTGGAA
GAGACCTCGGCTGAGCCATCCCTCCAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGAC
CTCAATGAGAAGATTGCACAGAGCCTGGCCCCATGGAGCTGGTGGAGAAGAATCCTTCTGTGAG
TCCAGCCTGAAGGAAGCCATCATTGTGGGCCAGGTGAACTATCCCAAAGTAGCAGACAGCTTCTCTTC
GATGAGGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCCAGCCATGAGTCCAGGGTCTGTGCCG
TCACCCCTGGAGGCCGAGTCAGCGAACCACTGCTCAGTGCCACCTTGCATCCCCACCCAGGTTGTG
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CCACCTCTGCTGCCTCCCAGCCTCACCAATGGAACCACTATCCCCACTGCCAAGTCCACCCACACTC
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CCAAAGGTGAAGAAGCTCAAGTACCACCACTACATCCCCCGGACCAGAAGCAGGACAGGGGGGCCACC
CCCATGGACTCATCTAGCCAAGATCCTGCAGCAGCAGCAGCTTCTCTCCAGCTGCAGATCCTCAAC
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CTGGGAAGCAGCGGGACCCCCAGTACGACGCTCTCCACTACCAATAGCAGCTCCAGCTCGGGCGCC
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AACCTGGACGACATGAAGGTGGCAGAGCTGAAGCAGGAGCTGAAGTTGCGATCACTGCCTGTCTCGGGC
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CAGGGCCCCAGCCTCATCAAGGGGTTGCACCTCCCACCTCATCACCGACTCCACAGGGACCCACCTT
GTCCTCACCGTGACCAATAAGAAATGCAGACAGCCCTGGCCTGTCCAGTGGGAGCCCCAGCAGCCCTCG
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TTTGGGACCCCACTTCTCTGCTGAAGAAGGAACCACTGGCTATGAGGAAGCCATGAGCCAGCAGCCC
AAACAGCAGGAAAATGGTTCCTCAAGCCAGCAGATGGACGACCTGTTTACATTCTATTACAGAGCGGA
GGTAACCCAGAAAATTTTCAAGGAGCCGATCCCTGCCAGGGAAGGAGAAGCCATCCCC
GAAGACAGTCTGTGGGTCCCCCTGGCAGCACAGCCATCACCTTCTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

**Protein Sequence:** >Peptide sequence encoded by RG239590  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MPPLKSPAAFHEQRRSLERARTEDYLKRRKIRSRPERSELVRMHILEETSAEPSLQAKQLKLRARLADD
LNEKIAQRPGPMELVEKNILPVESSLKEAIIVGQVNYPKVADSSSFDESSDAL SPEQPASHESQGSVP
SPLEARVSEPLL SATSASPTQVVSQ LPMGRDSREMLFLAEQPPLPPPPLPPSL TNGTTIPTAKSTPTL
IKQSQPKSASEKSQRSKKAKELKPKVKLKYHQYIPPDQKQDRGAPPMDSSYAKILQQQLFLQLQILN
QQQQQHNYQAILPAPPKSAGEALGSSGTPPVRSLSSTNSSSSGAPGPCGLARQNSTSLTGKPGALPA
NLDDMKVAELKQELKLRSLPVSGTKTELIERLRAYQDQISPVPGAPKAPAATSILHKAGEVVVAFPAAR
LSTGPALVAAGLAPAEVVVATVASSGVVKGSTGTPPVSPTPSERSLLSTGDENSTPGDTFGEMVTS
LTQLTLQASPLQILVKEEGPRAGSCCLSPGGRAELEGRDKDQMLQEKDKQIEALTRMLRQKQQLVERLK
LQLEQEKRAQQPAPAPAPLGPVKQENSFSSCQLSQQPLGPAHPFNPSLAAPATNHIDPCAVAPGPPSV
VVKQEALQPEPEVPAPQLLLGPQGPSL IKGVAPPTLITDSTGTHLVL TVTNKNADSPGLSSGSPQQPS
SQPGSPAPAPSAQMDLEHPLQLPFGTPTSL LKKEPPGYEAMSQQPKQQENGSSSQMDDLFDILIQSG
GNPRNFSRFQGAaiparegeaipEDSLWVPPGSTAITFC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYP SGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
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```

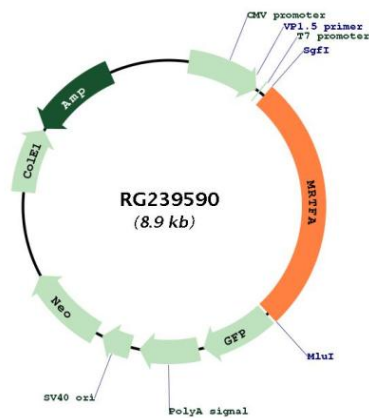
**Restriction Sites:** Sgfl-Mlul



**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]

**Product images:**



Circular map for RG239590