

## Product datasheet for **SC337484**

### MRTFA (NM\_001282662) Human Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001282662, the custom clone sequence may differ by one or more nucleotides

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ATGCCGCCTTTGAAAAGTCCAGCCGATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGGCCAGGACAGAGG
ACTATCTCAAACGGAAGATTTCGTTCCCGGCCGGAGAGATCGGAGCTGGTCAGGATGCACATTTTGAAGA
GACCTCGGCTGAGCCATCCCTCCAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGACCTC
AATGAGAAGATTGCACAGAGGCCTGGCCCCATGGAGCTGGTGGAGAAGAACATCCTTCTGTTGAGTCCA
GCCTGAAGGAAGCCATCATTGTGGGCCAGGTGAACTATCCCAAAGTAGCAGACAGCTCTTCTTCGATGA
GGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCCAGCCATGAGTCCCAGGGTCTGTGCCGTACCC
CTGGAGGCCCGAGTCAGCGAACCCTGCTCAGTGCACCTCTGCATCCCCACCCAGGTTGTGTCTCAAC
TTCGATGGGCCGGGATTCCAGAGAAATGCTTTTCTGGCAGAGCAGCCTCTCTGCCTCCCCACCTCT
GCTGCCTCCAGCCTACCAATGGAACCACTATCCCCACTGCCAAGTCCACCCCCACACTCATTAAAGCAA
AGCCAACCAAGTCTGCCAGTGAGAAGTACAGCGCAGCAAGAAGGCCAAGGAGCTGAAGCCAAAGGTGA
AGAAGCTCAAGTACCACCAGTACATCCCCCGGACCAGAAGCAGGACAGGGGGGACCCCCCATGGACTC
ATCTACGCCAAGATCCTGCAGCAGCAGAGCTTCTCCTCAGCTGCAGATCCTCAACCAGCAGCAGCAG
CAGCACCACTAACCAGGCCATCCTGCCTGCCCGCCAAAGTCAGCAGGCGAGGCCCTGGGAAGCAGCG
GGACCCCCCAGTACGCAGCCTCTCCTACTACCAATAGCAGCTCCAGCTCGGGCGCCCTGGGCCCTGTGG
GCTGGCACGTGAGAACAGCACCTCACTGACTGGCAAGCCGGGAGCCCTGCCGGCCAACTGGACGACATG
AAGGTGGCAGAGCTGAAGCAGGAGCTGAAGTTGCGATCACTGCCTGTCTCGGGCACAAAACCTGAGCTGA
TTGAGCGCCTTCGAGCCTATCAAGACCAATCAGCCCTGTGCCAGGAGCCCCAAGGCCCTGCCGCCAC
CTCTATCTGCACAAGGCTGGCGAGGTGGTGGTAGCCTTCCAGCGGCCCGGCTGAGCACGGGGCCAGCC
CTGGTGGCAGCAGGCCTGGCTCCAGCTGAGGTGGTGGTGGCCACGGTGGCCAGCAGTGGGTGGTGAAGT
TTGGCAGCACGGGCTCCACGCCCCCGTGTCTCCACCCCTCGGAGCGCTCACTGCTCAGCACGGGCGA
TGAAAACCTCCACCCCGGGGACACCTTTGGTGAAGTGGTACATCACCTCTGACGAGCTGACCCTGCAG
GCCTCGCCACTGCAGATCCTCGTGAAGGAGGAGGGCCCCCGGGCCGGTCTGTTGCCTGAGCCCTGGGG
GGCGGGCGGAGCTAGAGGGGCGCGACAAGGACCAGATGCTGCAGGAGAAAGACAAGCAGATCGAGGGCCT
GACGCGCATGCTCCGGCAGAAGCAGCAGCTGGTGGAGCGGCTCAAGCTGCAGCTGGAGCAGGAGAAGCGA
GCCCAGCAGCCCCCCCCGCCCCCGCCCCCTCGGCACCCCGTGAAGCAGGAGAACAGCTTCTCCAGCT
GCCAGCTGAGCCAGCAGCCCTGGGCCCGCTCACCCATTCAACCCAGCCTGGCGGCCACGCCACCAA
CCACATAGACCCTTGTGCTGTGGCCCCGGGGCCCCGTCCTGGTGGTGAAGCAGGAAGCCTTGCAGCCT
GAGCCCGAGCCGGTCCCCGCCCCAGTTGCTTCTGGGGCTCAGGGCCCCAGCCTCATCAAGGGGGTTG
CACCTCCACCCCTCATCACCGACTCCACAGGGACCCACCTTGTCTCACCGTGACCAATAAGAATGCAGA
CAGCCCTGGCCTGTCCAGTGGGAGCCCCAGCAGCCCTCGTCCCAGCCTGGCTCTCCAGCGCCTGCCCC
TCTGCCAGATGGACCTGGAGCACCCACTGCAGCCCTCTTGGGACCCCACTTCTCTGCTGAAGAAGG
AACCACCTGGCTATGAGGAAGCCATGAGCCAGCAGCCAAACAGCAGGAAAATGGTTCTCAAGCCAGCA
GATGGACGACCTGTTGACATTCTATTAGAGCGGAGGTAACCCAGAAAATTCAGCAGATTTCAAGGA
GCCGCCATCCCTGCCAGGAAGGAGAAGCCATCCCCGAAGACAGTCTGTGGGTCCCCCTGGCAGCACAG
CCATCACCTTCTGCTGA
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001282662
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** 2397 bp

**Locus ID:** 57591

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

**Protein Families:** Transcription Factors

**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]

Transcript Variant: This variant (4) uses an alternate splice site in the 3' coding region, which results in a frameshift and an early stop codon compared to variant 1. The encoded isoform (3) has a shorter and distinct C-terminus compared to isoform 5. CCDS Note: The coding region has been updated to start at a non-AUG translation start codon that is supported by publications and conservation.