

Product datasheet for **SC314943**

MRTFA (NM_020831) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRTFA (NM_020831) 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)



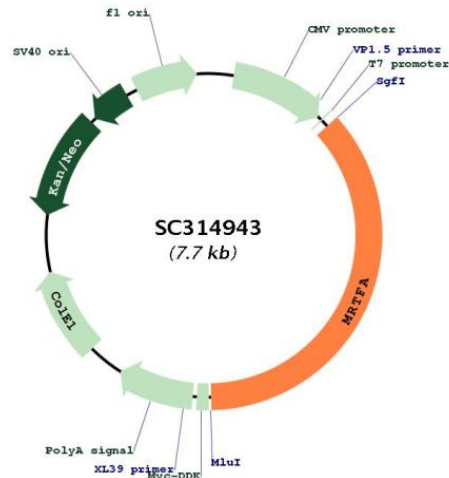
[View online »](#)

Fully Sequenced ORF: >SC314943 representing NM_020831.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_020831

Insert Size: 2796 bp

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_020831.4](#)

RefSeq Size: 4550 bp

RefSeq ORF: 2796 bp

Locus ID: 57591

UniProt ID: [Q969V6](#)

Cytogenetics: 22q13.1-q13.2

Domains: SAP, RPEL

Protein Families: Transcription Factors

MW: 98.9 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]

Transcript Variant: This variant (1) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (1) has a shorter N-terminus, compared to isoform 1. Both variants 1 and 2 encode the same isoform (1).