

Product datasheet for **SC337621**

MRTFA (NM_001282661) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRTFA (NM_001282661) 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_001282661, the custom clone sequence may differ by one or more nucleotides

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ATGCCGCCTTTGAAAAGTCCAGCCGATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGGCCAGGACAGAGG
ACTATCTCAAACGGAAGATTTCGTTCCCGCGCCGAGAGATCGGAGCTGGTCAGGATGCACATTTTGAAGA
GACCTCGGCTGAGCCATCCCTCCAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGACCTC
AATGAGAAGATTGCACAGAGGCCTGGCCCATGGAGCTGGTGGAGAAGAACATCCTTCTGTTGAGTCCA
GCCTGAAGGAAGCCATCATTGTGGGCCAGGTGAACTATCCCAAAGTAGCAGACAGCTCTTCTTCGATGA
GGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCCAGCCATGAGTCCCAGGGTTCTGTGCCGTACCC
CTGGAGGCCCGAGTCAGCGAACCCTGCTCAGTGCCACCTCTGCATCCCCACCCAGCAAAGCCAACCCA
AGTCTGCCAGTGAGAAGTCACAGCGCAGCAAGAAGGCCAAGGAGCTGAAGCCAAAGGTGAAGAAGCTCAA
GTACCACCAGTACATCCCCCGGACCAGAAGCAGGACAGGGGGCACCCCATGGACTCATCTACGCC
AAGATCTGCAGCAGCAGCTCTTCTCCAGCTGCAGATCCTCAACCAGCAGCAGCAGCAGCACCACA
ACTACCAGGCCATCCTGCCTGCCCGCCAAAGTCAGCAGGCGAGGCCCTGGGAAGCAGCGGGACCCCCC
AGTACGCAGCCTCTCCACTACCAATAGCAGCTCCAGCTCGGGCGCCCTGGGCCCTGTGGCTGGCAGCT
CAGAACAGCACCTCACTGACTGGCAAGCCGGGAGCCCTGCCGGCCAACCTGGACGACATGAAGGTGGCAG
AGCTGAAGCAGGAGCTGAAGTTGCGATCACTGCCTGTCTCGGGCACAAAAGTGAAGTATTGAGCGCT
TCGAGCCTATCAAGACCAATCAGCCCTGTGCCAGGAGCCCCAAGGCCCTGCCGCCACCTCTATCCTG
CACAAGGTGGCGAGGTGGTGGTAGCCTTCCCAGCGCCCGGCTGAGCACGGGGCCAGCCCTGGTGGCAG
CAGGCCTGGCTCCAGCTGAGGTGGTGGTGGCCACGGTGGCCAGCAGTGGGTGGTGAAGTTTGGCAGCAC
GGGCTCCACGCCCCCGTGTCTCCACCCCTCGGAGCGCTCACTGCTCAGCACGGGCGATGAAAACCTCC
ACCCCGGGGACACCTTTGGTGAGATGGTGACATCACTCTGACGCAGCTGACCTGCAGCCCTGCCAC
TGCAGATCCTCGTGAAGGAGGAGGGCCCCGGCCGGGTCTGTTGCCTGAGCCCTGGGGGGCGGGCGGA
GCTAGAGGGGCGCGACAAGGACCAGATGCTGCAGGAGAAAGACAAGCAGATCGAGGCGCTGACGCCATG
CTCCGGCAGAAGCAGCAGCTGGTGGAGCGGCTCAAGCTGCAGCTGGAGCAGGAGAAGCGAGCCAGCAGC
CCGCCCCCGCCCCGCCCCCTCGGCACCCCGTGAAGCAGGAGAACAGCTTCTCCAGCTGCCAGCTGAG
CCAGCAGCCCTGGGCCCGCTCACCCATTCAACCCAGCCTGGCGGCCCCAGCCACCAACCACATAGAC
CCTTGTGCTGTGGCCCCGGGCCCCCGTCCGTGGTGGTGAAGCAGGAAGCCTTGCAGCCTGAGCCCGAGC
CGGTCCCCGCCCCAGTTGCTTCTGGGCCTCAGGGCCCCAGCCTCATCAAGGGGTTGCACCTCCCAC
CCTCATACCGACTCCACAGGGACCCACCTTGTCTCACCGTGACCAATAAGAATGCAGACAGCCCTGGC
CTGTCCAGTGGGAGCCCCAGCAGCCCTCGTCCCAGCCTGGCTCTCCAGGCCTGCCCCCTGTGCCAGA
TGGACCTGGAGCACCCACTGCAGCCCTCTTTGGGACCCCACTTCTCTGCTGAAGAAGGAACCACCTGG
CTATGAGGAAGCCATGAGCCAGCAGCCAAACAGCAGGAAAATGGTTCTCAAGCCAGCAGATGGACGAC
CTGTTTGCATTTCTATTAGAGCGGAGAAAATTCAGCAGATTTCAAGGAGCCGCATCCCTGCCAGGGA
AGGAGAAGCCATCCCCGAAGACAGTCTGTGGTCCCCCTGGCAGCACAGCCATCACCTTCTGCTGAGCT
CCCCAGGCTGCCCCACCTCTCCAGGCTACCCCTCCCTCCCTGGACGCTGGAGGACTTCTGGAGAGC
AGCACGGGGCTGCCCCGCTGACCAGTGGGCATGACGGGCCAGAGCCCTTCCCTATTGACGACCTCC
ATAGCCAGATGCTGAGCAGCACTGCCATCCTGGACCACCCCGTCACCCATGGACACCTCGGAATTGCA
CTTTGTTCTGAGCCCAGCAGCACCATGGGCCTGGACCTGGCTGATGGCCACCTGGACAGCATGGACTGG
CTGGAGCTGTCGTGAGGTGGTCCCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
CCACAGACTTCTCGATGGCCATGATTTGCAGCTGCACTGGGATTCTGCTTAG
    
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Restriction Sites: Sgfl-MluI

ACCN: NM_001282661

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:	<ol style="list-style-type: none">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:	<u>NM_001282661.1, NP_001269590.1</u>
RefSeq Size:	4400 bp
RefSeq ORF:	2646 bp
Locus ID:	57591
UniProt ID:	<u>Q969V6</u>
Cytogenetics:	22q13.1-q13.2
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than 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.</p>