

Product datasheet for **RC239727**

MRTFA (NM_001282661) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRTFA (NM_001282661) 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:

>RC239727 representing NM_001282661
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGCCTTTGAAAAGTCCAGCCGCATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGCCAGGACAGAGG
 ACTATCTCAAACGGAAGATTTCGTTCCCGCCGGAGAGATCGGAGCTGGTCAGGATGCACATTTTGAAGA
 GACCTCGGCTGAGCCATCCCTCCAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGACCTC
 AATGAGAAGATTGCACAGAGGCCTGGCCCCATGGAGCTGGTGGAGAAGAACATCCTTCTGTTGAGTCCA
 GCCTGAAGGAAGCCATCATTGTGGGCCAGGTGAATATCCCAAAGTAGCAGACAGCTTTCCTTCGATGA
 GGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCCAGCCATGAGTCCCAGGGTCTGTGCCGTACCCC
 CTGGAGGCCCGAGTCAGCGAACCCTGCTCAGTCCACCTCTGCATCCCCACCCAGCAAAGCCAACCCA
 AGTCTGCCAGTGAGAAGTCACAGCGCAGCAAGAAGGCCAAGGAGCTGAAGCCAAAGGTGAAGAAGCTCAA
 GTACCACAGTACATCCCCCGGACCAGAAGCAGGACAGGGGGCACCCCCATGGACTCATCTACGCC
 AAGATCCTGCAGCAGCAGCAGCTTTCCTCCAGCTGCAGATCCTCAACCAGCAGCAGCAGCAGCACCACA
 ACTACCAGGCCATCCTGCCTGCCCGCCAAAGTCAGCAGGCGAGGCCCTGGGAAGCAGCGGGACCCCCC
 AGTACGCAGCCTCTCCACTACCAATAGCAGCTCCAGCTCGGGCGCCCCCTGGGCCCTGTGGGTGGCAGT
 CAGAACAGCACCTCACTGACTGGCAAGCCGGGAGCCCTGCCGGCCAACCTGGACGACATGAAGGTGGCAG
 AGCTGAAGCAGGAGCTGAAGTTGCGATCACTGCCTGTCTCGGGCACAAAACCTGAGCTGATTGAGCGCT
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 CAGCCTGGCTCCAGCTGAGGTGGTGGTGGCCACGGTGGCCAGCAGTGGGGTGGTGAAGTTGGCAGCAG
 GGGCTCCACGCCCCCGTGTCTCCACCCCTCGGAGCGCTCACTGCTCAGCACGGGCGATGAAAACCTCC
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 CCGCCCCCGCCCCCGCCCCCTCGGCACCCCGTGAAGCAGGAGAACAGCTTCTCCAGCTGCCAGCTGAG
 CCAGCAGCCCTGGGCCCGCTCACCCATTCAACCCAGCCTGGCGGCCAGCCACCAACCACATAGAC
 CCTTGTGCTGTGGCCCCGGGCCCCCGTCCGTGGTGGTGAAGCAGGAAGCCTTGCAGCCTGAGCCCGAGC
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 AGGAGAAGCCATCCCCGAAGACAGTCTGTGGTCCCCCTGGCAGCACAGCCATCACCTTCTGCTGAGCT
 CCCCAGGCTGCCACCTCCTCCAGGCTCACCTCCCTCCCTGGACCCCTGGAGGACTTCTGGAGAGC
 AGCACGGGGCTGCCCTGCTGACCAGTGGGCATGACGGGCCAGAGCCCTTTCCCTCATTGACGACCTCC
 ATAGCCAGATGCTGAGCAGCACTGCCATCCTGGACCACCCCGTCAACCATGGACACCTCGGAATTGCA
 CTTTGTTCCTGAGCCAGCAGCACCATGGGCTGGACCTGGTGTGATGGCCACCTGGACAGCATGGACTGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239727 representing NM_001282661
 Red=Cloning site Green=Tags(s)

MPPLKSPAAFHEQRRSLERARTEDYLKRKIRSRPERSELVRMHILEETSAEPSLQAKQLKLRARLADDL
 NEKIAQRPGMELVEKNILPVESSLKEAIIVGQVNYPKVADSSSFDESDSDALSPEQPASHESQGSVPS
 LEARVSEPLL SATSASPTQSQPKSASEKSQRSKKAKELPKVKLKYHQYIPDQKQDRGAPPMDSSYA
 KILQQQLFLQLQLLNQQQQHHNYQAILPAPPKSAGEALGSSGTPPVRSLLSTNSSSSSGAPGPCGLAR
 QNSTSLTGKPGALPANLDDMKVAELKQELKLRSLPVSGTKTELIERLRAVQDQISPVPGAPKAPAATSIL
 HKAGEVVVAFPAARLSTGPALVAAGLAPAEVVVATVASSGVVKFGSTGTPPVSPPTPERSLLSTGDENS
 TPGDTFGEMVTSPLTQLTLQASPLQILVKEEGPRAGSCCLSPGGRAELEGKDKDQMLQEKDQIEALTRM
 LRQKQQLVERLKLQLEQEKRAQQPAPAPAPLGTVPKQENSFSSCQLSQPLGPAHPFNPSLAAPATNHID
 PCAVAPGPPSVVVKQEQALQPEPEVPAPQLLLGPQGPSL IKGVAPPTLITDSTGTHLVLTVTNKNADSPG
 LSSGSPQQSSQPGSPAPAPSAQMDLEHPLQPLFGTPTSLKKKEPPGYEEAMSQQPKQENGSSSQMDD
 LFDILIQSGEISADFKPEPPLGKPKSPKTVCGSPLAAQSPSAELQAAPPPGPSPLGRLEDFLES
 STGLPLLTSGHDGPEPLSLIDDLHSQMLSSTAILDHPPSPMDTSELHFVPEPSSTMGLDLADGHLDSMDW
 LELSSGGPVL SLAPLSTTAPSLFSTDFLDGHDLQLHWDSCV

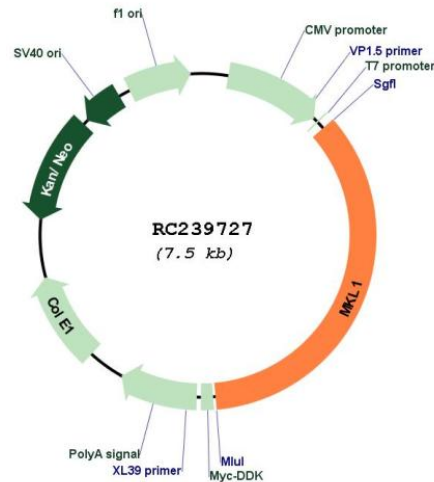
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282661

ORF Size: 2643 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_001282661.1](#), [NP_001269590.1](#)

RefSeq Size: 4400 bp

RefSeq ORF: 2946 bp

Locus ID: 57591

UniProt ID: [Q969V6](#)

Cytogenetics: 22q13.1-q13.2

Protein Families: Transcription Factors

MW: 94 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]