

Product datasheet for **RG239727**

MRTFA (NM_001282661) Human Tagged ORF Clone

Product data:

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

>RG239727 representing NM_001282661.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCGCCTTTGAAAAGTCCAGCCGATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGCCAGGACAGAG
GACTATCTCAAACGGAAGATTCTGTTCCCGGCCGAGAGATCGGAGCTGGTCAGGATGCACATTTTGGAA
GAGACCTCGGCTGAGCCATCCCTCCAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGAC
CTCAATGAGAAGATTGCACAGAGCCTGGCCCCATGGAGCTGGTGGAGAAGAATCCTTCTGTGAG
TCCAGCCTGAAGGAAGCCATCATTGTGGGCCAGGTGAACTATCCCAAAGTAGCAGACAGCTTCTCTTC
GATGAGGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCCAGCCATGAGTCCAGGGTCTGTGCCG
TCACCCCTGGAGGCCGAGTCAAGCAACACTGCTCAGTGCCACCTTGCATCCCCACCCAGCAAAGC
CAACCCAAAGTCTGCCAGTGAAGAATCACAGCGCAGCAAGAAGGCCAAGGAGCTGAAGCCAAAGTGAAG
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TCCTACGCCAAGATCCTGCAGCAGCAGCAGCTTCTCTCCAGCTGCAGATCCTCAACCAGCAGCAGCAG
CAGCACCACTAACCAGGCCATCCTGCCTGCCCGCCAAAGTCAAGCAGGCGAGGCCCTGGGAAGCAGC
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ATGAAGGTGGCAGAGCTGAAGCAGGAGCTGAAGTTGCGATCACTGCCTGTCTCGGGCACCAAACTGAG
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CCAGCCCTGGTGGCAGCAGGCCCTGGCTCCAGCTGAGGTGGTGGTGGCCACGGTGGCCAGCAGTGGGGTG
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CTCCCTGGACGCTGGAGGACTTCTGGAGAGCAGCAGGGGCTGCCCTGCTGACCAGTGGCATGAC
GGGCCAGAGCCCCCTTCCCTCATTGACGACCTCCATAGCCAGATGCTGAGCAGCACTGCCATCCTGGAC
CACCCCCGTCACCCATGGACACCTCGGAATTGCACTTTGTTCTGAGCCAGCAGCACCATGGGCTG
GACCTGGCTGATGGCCACCTGGACAGCATGGACTGGTGGAGCTGTCGTGAGGTGGTCCCGTGTGAGC
CTAGCCCCCTCAGCACCAAGCCCCAGCCTTCTCCACAGACTTCTCGATGGCCATGATTTGCAG
CTGCACTGGGATTCTGCTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239727
 Blue=ORF Red=Cloning site Green=Tag(s)

MPPLKSPAAFHEQRRSLERARTEDYLKRRKIRSRPERSELVRMHILEETSAEPSLQAKQLKLRARLADD
 LNEKIAQRPGPMELVEKNILPVESSLKEAIIVGQVNYPKVADSSSFDESSDAL SPEQPASHESQGSVP
 SPLEARVSEPLL SATSASPTQQSQPKSASEKSQRSKKAKELKPKVKLKYHQYIPDQKQDRGAPPMS
 SYAKILQQQLFLQLQILNQQQQHNYQA ILPAPPKSAGEALGSSGTPPVRS LSTN SSSSSGAPGPC
 GLARQNSTSLTGKPGALPANLDDMKVAELKQELKLRSLPVSGKTELIERLRAYQDQISVPVGPAPAPA
 ATSILHKAGEVVVAFPAARLSTGPALVAAGLAPAEVVVATVASSGVVKGSTGSTPPVSPPTSERLLS
 TGDENSTPGDTFGEMVTSPLTQLTLQASPLQILVKEEGPRAGSCCLSPGGRAELEGRDKDQMLQEKDQ
 IEALTRMLRQKQLVERLKLQLEQEKRAQPAPAPAPLGTVPKQENSFSSCQLSQQLGPAHPFNPSLA
 APATNHIDPCAVAPGPPSVVVKQEQALQPEPEVPAPQLLLGPQGPSLIKGVAPPTLITDSTGTHLVLTV
 TNKNADSPGLSSGSPQQSSQPGSPAPAPSAQMDLEHPLQPLFGTPTSLKKEPPGYEAMSQQPKQE
 NGSSSQMDDLFDILIQSGEISADFKPEPSLPGKEKPSPKTVCGSPLAAQSPSAELQAAPPPGSPS
 LPGRLEDFLESSTGLPLLTSGHDGPEPLSLIDDLHSQMLSSTAILDHPPSPMDTSELHFVPEPSSMGL
 DLADGHLDSMDWLELSSGGPVL SLAPLSTTAPSLFSTDFLDGHDLQLHWD SCL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


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).

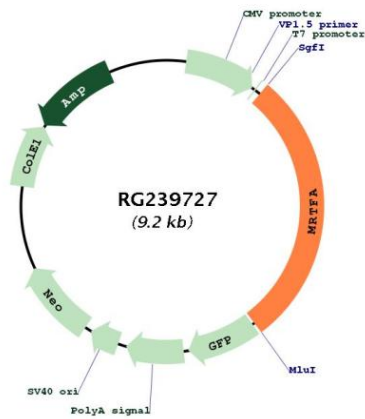
RefSeq: [NM_001282661.1](#), [NP_001269590.1](#)

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]

Product images:



Circular map for RG239727