

Product datasheet for **RG221212**

MRTFA (NM_020831) Human Tagged ORF Clone

Product data:

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

>RG221212 representing NM_020831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGCCTTTGAAAAGTCCAGCCGCATTTTCATGAGCAGAGAAGGAGCTTGGAGCGGCCAGGACAGAGG
 ACTATCTCAAACGAAGATTTCGTTCCCGCCGGAGAGATCGGAGCTGGTCAGGATGCACATTTTGAAGA
 GACCTCGGCTGAGCCATCCCTCCAGGCCAAGCAGCTGAAGCTGAAGAGAGCCAGACTAGCCGATGACCTC
 AATGAGAAGATTGCACAGAGGCCTGGCCCCATGGAGCTGGTGGAGAAGAACATCCTTCTGTTGAGTCCA
 GCCTGAAGGAAGCCATCATTGTGGGCCAGGTGAACTATCCCAAAGTAGCAGACAGCTTCTCTTCGATGA
 GGACAGCAGCGATGCCTTATCCCCGAGCAGCCTGCCAGCCATGAGTCCCAGGGTCTGTGCCGTCACCC
 CTGGAGGCCCGAGTCAGCGAACCCTGCTCAGTCCACCTCTGCATCCCCACCCAGGTTGTGTCTCAAC
 TTCGATGGGCCGGGATTCCAGAGAAATGCTTTTCTGGCAGAGCAGCCTCCTCTGCCTCCCCACCTCT
 GCTGCCTCCAGCCTACCAATGGAACCACTATCCCCACTGCCAAGTCCACCCCACTCATTAAAGCAA
 AGCCAACCAAGTCTGCCAGTGAGAAGTACAGCGCAGCAAGAAGGCCAAGGAGCTGAAGCCAAAGGTGA
 AGAAGTCAAGTACCACAGTACATCCCCCGGACCAGAAGCAGGACAGGGGGCACCCCCATGGACTC
 ATCCTACGCCAAGATCCTGCAGCAGCAGAGCTTTCCTCCAGCTGCAGATCCTCAACCAGCAGCAGCAG
 CAGCACCAACTACCAGGCCATCTGCCTGCCCGCCAAAGTCAAGCAGGCGAGGCCCTGGGAAGCAGCG
 GGACCCCCAGTACGCAGCCTCTCCACTACCAATAGCAGCTCCAGCTCGGGCGCCCTGGGCCCTGTGG
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 AAGGTGGCAGAGCTGAAGCAGGAGCTGAAGTTGCGATCACTGCCTGTCTCGGGCACAAAACCTGAGCTGA
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 CTCTATCCTGCACAAGGCTGGCGAGGTGGTGGTGGTTCCTCCAGCGGCCCGGCTGAGCACGGGCCAGCC
 CTGGTGGCAGCAGGCCTGGCTCCAGCTGAGGTGGTGGTGGCCACGGTGGCCAGCAGTGGGGTGGTGAAGT
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 TGAAAACCTCACCCCGGGGACACCTTTGGTGAGATGGTGACATCACCTCTGACGCAGCTGACCCTGCAG
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 GGCGGGCGGAGCTAGAGGGGCGGACAAGGACCAGATGCTGCAGGAGAAAGACAAGCAGATCGAGGGCCT
 GACGCGCATGCTCCGGCAGAAGCAGCAGCTGGTGGAGCGGCTCAAGCTGCAGCTGGAGCAGGAGAAGCGA
 GCCAGCAGCCCCCCCCGCCCGCCCCCTCGGCACCCCGTGAAGCAGGAGAACAGCTTCTCCAGCT
 GCCAGCTGAGCCAGCAGCCCTGGGCCCGCTCACCCATTCAACCCAGCCTGGCGGCCAGCCACCAA
 CCACATAGACCCTTGTGCTGTGGCCCCGGGGCCCCCGTCCGTGGTGGTGAAGCAGGAAGCCTTGACGCT
 GAGCCCGAGCCGGTCCCCGCCCCAGTTGCTTCTGGGGCCTCAGGGCCCCAGCCTCATCAAGGGGGTTG
 CACCTCCCACCCTCATCACCGACTCCACAGGGACCCACCTTGTCTCACCGTGACCAATAAGAATGCAGA
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 GATGGACGACCTGTTGACATTCATTCAGAGCGGAGAAAATTCAGCAGATTTCAAGGAGCCGCATCC
 CTGCCAGGGAAGGAGAAGCCATCCCCGAAGACAGTCTGTGGGTCCCCCTGGCAGCACAGCCATCACCTT
 CTGCTGAGCTCCCCAGGCTGCCACCTCCTCCAGGCTCACCTCCCTCCCTGGACGCCTGGAGGACTT
 CCTGGAGAGCAGCACGGGCTGCCCTGCTGACCAGTGGGCATGACGGGCCAGAGCCCTTTCCCTCATT
 GACGACCTCCATAGCCAGATGCTGAGCAGCACTGCCATCCTGGACCACCCCGTCAACCATGGACACCT
 CGGAATTGCATTTGTTCTGAGCCAGCAGCACCATGGGCTGGACCTGGCTGATGGCCACCTGGACAG
 CATGGACTGGCTGGAGCTGTCGTGAGTGGTCCCGTGTGAGCCTAGCCCCCTCAGCACCCAGCCCC
 AGCCTCTCTCCACAGACTTCTCGATGGCCATGATTTGCAGCTGCACTGGGATTCTGCTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221212 representing NM_020831
 Red=Cloning site Green=Tags(s)

MPPLKSPAAFHEQRRSLERARTEDYLKRRKIRSRPERSELVRMHILEETSAEPSLQAKQLKLRARLADDL
 NEKIAQRPGMELVEKNILPVESLKEAIIIVGQVNYPKVADSSSFDESSDAL SPEQPASHESQGSVPSP
 LEARVSEPLL SATSASPTQVVSQ LPMGRDSREMLFLAEQPPLPPP LPPSLTNGTTIPTAKSTPTLIKQ
 SQPKSASEKSQRSKKAKELKPKVKKLYHYQYIPPDQKQDRGAPPMDSSYAKILQQQLFLQLQILNQQQ
 QHHNYQAILPAPPKSAGEALGSSGTPPVRSLSSTNSSSSGAPGPCGLARQNSTSLTGKPGALPANLDDM
 KVAELKQELKLRSLPVSGTKTELIERL RAYQDQISPVPGAPKAPAATSILHKAGEVVVAFPAARLSTGPA
 LVAAGLAPAEVVVATVASSGVVVFSTGTPPVSPTPSERSLLSTGDENSTPGDTFGEMVTSPLTQLTLQ
 ASPLQILVKEEGPRAGSCLSPGGRAELEGRDKDQMLQEKDQIEALTRMLRQKQQLVERLKLQLEQEKR
 AQQPAPAPAPLGTVPKQENSFSSCQLSQQLGPAHPFNPSLAAPATNHIDPCAVAPGPPSVVVKQEQALQP
 EPEVPAPQ LLLGPQPSL IKGVPPTLITDSTGTHLVLTVTNNADSPGLSSGSPQQPSSQPGSPAPAP
 SAQMDLEHPLQPLFGTPTSL LKKEPPGYEAM SQPKQEQENGSSSQMDDLFDILIQSGEISADFKEPPS
 LPGKEKPSPKTVCGSPLAAQPSPAELQAAPPPGSPSLPGRLEDFLESSTGLPLLTSGHDGPEPLSLI
 DDLHSQMLSSTAILDHPPSPMDTSELHFVPEPSSTMGLDLADGHLDSDMWLELSSGGPVLSLAPLSTTAP
 SLFSTDFLDGHDLQLHWDSCL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

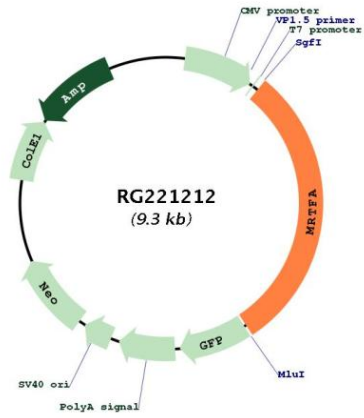
Cloning Scheme:



ACCN: NM_020831

ORF Size:	2793 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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:	NM_020831.4 , NP_065882.1
RefSeq Size:	4507 bp
RefSeq ORF:	3096 bp
Locus ID:	57591
UniProt ID:	Q969V6
Cytogenetics:	22q13.1-q13.2
Domains:	SAP, RPEL
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>

Product images:



Circular map for RG221212