

Product datasheet for **RR210138**

Mtif2 (NM_001004254) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtif2 (NM_001004254) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtif2
Synonyms:	MGC94962
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR210138 representing NM_001004254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCAGAAGCTACTGAAGTTGAAAAAGTTGCTACGATTTCACTATTTGTAGGCAATTGCACAGCC
 TGAGTCAAAGAAGATTGTTAGCATGGTGGAAAGCATGGGTCTGCACCGCTTCCCCAGTGTGGGCAGATTG
 GCTGTGTGCCCGCCTTGCCGACAGACGTGCTTACTGGTTCAGCTTTGCATCAGCACAGACTTCTTGTT
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
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Protein Sequence: >RR210138 representing NM_001004254
 Red=Cloning site Green=Tags(s)

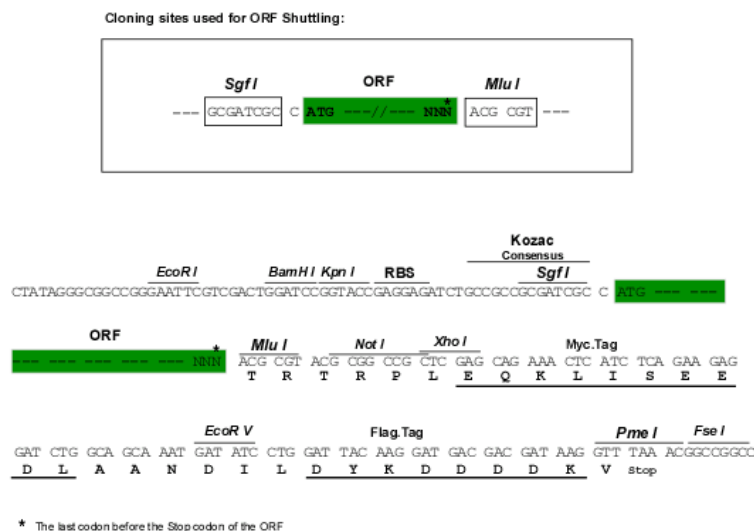
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 PTGPVEGTVIESFTDKGRGPVTTAIIQRGTLKKGSILVAGKSWAKVRLMFDENGKTVNEAYPSMPVGIIG
 WRDLPSAGDEILEVQSEPRAREVVDWRKSEQKEEKGGDDLKIMEEKRKEHQEAHRKAREKYGSLHWKQRS
 YIKYLERKEQRPLKPEKVERDSNVLPII IKGDVDGSVEAILNLLDTYDASHECELELVHFGLDISEND
 VTFAETFDGVIYGFNVDAGSAIQSAAQGVKIKLHKIIYHLIEDLQEELSNRLPYKVEEYPIGEASILA
 TFTITEGKKKVPVAGCRVQKGQLERQKKFKLIRNGQVIWKGSLTSLKHHKDDVLVIKTGVDCGLSLDEEN
 VEFKVGQDVICYEENKVPTKTSWDPGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001004254

ORF Size: 2181 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_001004254.1](#), [NP_001004254.1](#)

RefSeq Size: 2259 bp

RefSeq ORF: 2184 bp

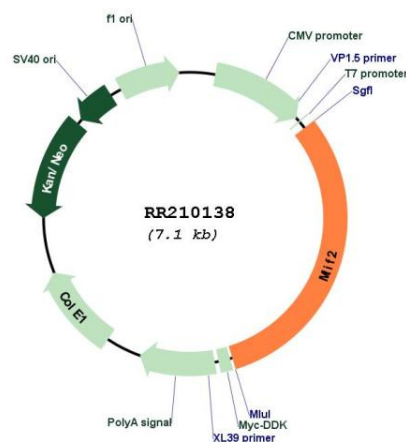
Locus ID: 305606

Cytogenetics: 14q22

MW: 81.3 kDa

Gene Summary: member of the p160 family of nuclear receptor coactivators; during protein biosynthesis, Mtif2 catalyzes the binding of the tRNA to the small subunit of the ribosome in a GTP-dependent manner [RGD, Feb 2006]

Product images:



Circular map for RR210138