

Product datasheet for **MG223504**

Rnf152 (NM_178779) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnf152 (NM_178779) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rnf152
Synonyms: A930029B02Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223504 representing NM_178779
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGACTCTCCAGGATCCCTGTTGGAATGTCAGATCTGTTTTAATTATTACAGCCCCGACGAA
 GGCCCAAGTTGTTGGATTGCAAGCACACCTGCTGCTCGGTGTGCCTCCAGCAGATGAGGACCAGCCAGAA
 GGACGTAAGGTGCCCTGGTCCCGTGGCATCACCAAATGCCCGGGCTTCTGTATCACAACCTGCC
 GATGACCCAGAGGTCTTGGCAGTCATTGCCATACCACACTTCCGAGCATACCCAGTCTTCATCAAAC
 TTCCAAGCAATGGGTGCTACATGCTGCCCTGCCATCTCTAAGGAGCGTACACTCCTGCCGGGAGACAT
 GGGCTGCCGCTGCTGCCAGGGAGCCAGCAGAAGTCTCTCACCGTGGTGACCATCCCTGCAGAACAGCAG
 CCCCTGCAGGGTGGAGCTCCCCGGAGGCTGTGGAGGAGGAGCCTGACAGAAGGGCGTGGTGAAGAGCT
 CCACATGGTCTGGCGTGTCACTGTATCCTGGTGGCCTGTGTTTGGTCTTCTCCTGGGCATTGTGCT
 ACACAACATGCTCTGATCTCTAAGCGCTTCACTGTGATATCCTGTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223504 representing NM_178779
 Red=Cloning site Green=Tags(s)

METLSQDSLLECQICFNYYSPRRPKLLDCKHTCCSVCLQQMRTSQKDVRCPWCRGITKLPFGSVS
 QLPDDPEVLAVIAIPHTSEHTPVFIKLPNSNGCYMLPLPIKERTLLPGDMGCRLLPGSQKSLTVVTIPAEQQ
 PLQGGAPPEAVEEEDRRGVVKSSTWSGVCTVILVACVLVFLLGIVLHNMSCISKRFTVISCG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

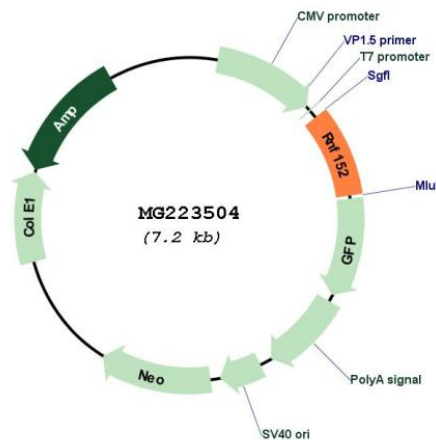


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Cloning Scheme:



Plasmid Map:



ACCN: NM_178779

ORF Size: 609 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_178779.4](#), [NP_848894.1](#)

RefSeq Size: 8529 bp

RefSeq ORF: 612 bp

Locus ID: 320311

UniProt ID: [Q8BG47](#)

Cytogenetics: 1 E2.1

Gene Summary: E3 ubiquitin-protein ligase mediating 'Lys-63'-linked polyubiquitination of RRAGA in response to amino acid starvation. Thereby, regulates mTORC1 signaling and plays a role in the cellular response to amino acid availability (PubMed:25936802). Also mediates 'Lys-48'-linked polyubiquitination of target proteins and their subsequent targeting to the proteasome for degradation. Induces apoptosis when overexpressed (By similarity).[UniProtKB/Swiss-Prot Function]