

## Product datasheet for MR223504

### Rnf152 (NM\_178779) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnf152 (NM\_178779) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rnf152  
**Synonyms:** A930029B02Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223504 representing NM\_178779  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGACTCTCCAGGATCCCTGTTGGAATGTCAGATCTGTTTTAATTATTACAGCCCCGACGAA  
 GGCCCAAGTTGTTGGATTGCAAGCACACCTGCTGCTCGGTGTGCCTCCAGCAGATGAGGACCAGCCAGAA  
 GGACGTAAGGTGCCCTGGTCCGTGGCATCACAAATTGCCCGGGCTTCTCTGTATCACAACCTGCC  
 GATGACCCAGAGGTCTTGGCAGTCATTGCCATACCACACACTCCGAGCATAACCCAGTCTTCATCAAAC  
 TTCCAAGCAATGGGTGCTACATGCTGCCCTGCCATCTCTAAGGAGCGTACACTCCTGCCGGGAGACAT  
 GGGCTGCCGCTGCTGCCAGGGAGCCAGCAGAAGTCTCTCACCGTGGTGACCATCCCTGCAGAACAGCAG  
 CCCCTGCAGGGTGGAGCTCCCCGGAGGCTGTGGAGGAGGAGCCTGACAGAAGGGGCGTGGTGAAGAGCT  
 CCACATGGTCTGGCGTGTCACTGTATCCTGGTGGCCTGTGTTTGGTCTTCTCCTGGGCATTGTGCT  
 ACACAACATGCTCTGCATCTCTAAGCGCTTCACTGTGATATCCTGTGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR223504 representing NM\_178779  
 Red=Cloning site Green=Tags(s)

METLSQDSLLEQCICFNYYSPRRPKLLDCKHTCCSVCLQQMRTSQKDVRCPWCRGITKLPFGSVS<sub>Q</sub>LP  
 DDPEVLAVIAIPHTSEHTPVFIKLPNSNGCYMLPLPIISKERTLLPGDMGCRLLPGSQQKSLTVVTIPAEQQ  
 PLQGGAPPEAVEEEDRRGVVKSSTWSGVCTVILVACVLVFLLGIVLHNMSCISKRFTVISCG

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9030\\_c02.zip](https://cdn.origene.com/chromatograms/mm9030_c02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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](#)

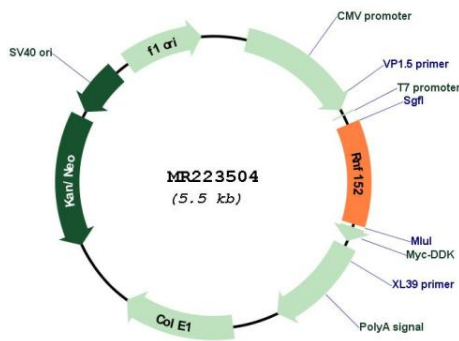
**RefSeq Size:** 8529 bp

**RefSeq ORF:** 612 bp

**Locus ID:** 320311

**UniProt ID:** [Q8BG47](#)  
**Cytogenetics:** 1 E2.1  
**MW:** 22.8 kDa  
**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]

**Product images:**



Circular map for MR223504