

## Product datasheet for **MG222470**

### **Rnf103 (NM\_009543) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rnf103 (NM_009543) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnf103
Synonyms:	AW146237; AW212918; kf-1; Zfp10; Zfp103
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG222470 representing NM\_009543  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGGCTGAAGCTGTTTTCTTCTGCTCCTGTATTTCTGGTCCTGTTCTGCTCCTGGCCAGGTTTTTTGAGG  
 CCATTGTGTGGTACGAGACTGGCATCTTTGCTACTCAGCTGGTGGATCCGGTGGCATTGAGCTTCAAGAA  
 GCTGAAGACCATTCTGGAGTGTGAGGGCTGGGCTACTCCGGGCTGCCGAGAAGAAAGATGTTCCGGAG  
 CTGGTGGAGAAGTCAGGTGACTTGATGGAAGGTGAACTCTATTCTGCTCTAAGGAAGAAGAGGCATCTG  
 AGTCTGTTTTCTAGTACCAATTTCAAGTGGTAAAATGCATTTCTATGAGCTTGTGGAAGACACAAAAGATGG  
 CATCTGGCTGGTTCAGGTATAGCAAATGACAGAAGTCCCTTTGGTGGTAAAATCCACTGGGAGAAAATG  
 GTGAAAAAAGTGTCAAGATTTGGAATACGGACAGGCACCTTCACTGTTCCAGTATCCAGGACTGCA  
 GAAGGAGAGGCTGGTGGCTTCCACACTCATGTCTGTGCCACAAACAAGTACATCTAAAGGGAAAGT  
 CATGCTTAAAGAGTACAGTGGACCAAGATTGAAGTAGAGCACATTTTTAAGTGGATAACTGCCCATGCA  
 GCTTCTCGGATCAAAACTATATAATGTGGAGCATTGAAGGAAGAATGGAATAAAAGTATCAACT  
 GGGTAAAAATATACCTATTTGCAAACCTTGACCAACCGCCAGCTTTCTTCTCTGCATTAAGTATAAAAT  
 TACTGGAAGAGTTGAGTTATTTTTGTTAATGTGGAATAATGGAACAACAAGAGTTATATGACAGATATT  
 GGTATTTATAACATGCCATCATACATACTTAGAACTCCTGAAGGAATTTATAGATACGGAACCACACAG  
 GTGAATTTATATCCCTTCAGGCCATGGATTCATTTCTGCGCTCATTACAACCTGAAGTAAATGATCTGTT  
 TGTGTTGAGTTTGGTTCTAGTTAATCTTATGGCTTGGATGGACTATTTATTACACAAGGAGCAACCATC  
 AAGCGATTTGTGGTTCATAGAAGTCTTAGGGACATAACAATCCCTATTAATTTCTTGGCTACCTG  
 TGTGGGCTTTCTACAGTCCCTTACTTAGATAGCTTTTATGACTATAGTTTAAGATTGCTGCGGATTC  
 TAATAACAACCACACTGGCTTCGTGGTAAGGGCAGACTGGATGTTTTACACTTCACACCCAGCCCTGTTT  
 CTCAGTACATACCTTGGACATGGTTTGCTAATTGATTACTTTGAGAAGAAGAGACGTCGACGCAACAATG  
 ATGAAGTTAATGCGAATAATTTAGAATGGTTATCAAGTCTGTGGGACTGGTACACCAGCTACCTCTTCCA  
 CCCGATTGCTTCTTTTCCAGAACTTCTGTAGACTCTGATTGGGACGAAGACCCTGACTTATTCTTGGAA  
 CGGTTAGCTTTCCCTGACCTTTGGCTTCCACCTCTGATACCAACTGATTATTTAAAACTTACCAATGT  
 GGCGATTTAAATGTCTTGGGTTTCAAGTCTGAAGAAGAAATGTCAGAGAGTTCTCAAGACTGAAAAATGA  
 CTCGGATAGTGACAACATGGACACTTTTAGTAGTAGTAAGGATATATTTGAAGATAAACAAGCGTTGTT  
 CACAGTTCTCCAGGAAGAACAAGTCACTGTGATACTGAGGCTTGTTCATGTGCCAATAAATGTGAGAGCA  
 GCCCATGTGAAAGGAAGAGGAGTTCGATGGATCACATAATACTGATGAAGATATGGAACCGGACTGGTT  
 AACTTGGCCTGCGGGTACGCTGCACTGTACTGAATGTGTTGTTTGCCTTGAGAATTTGAAAATGGATGT  
 TTGCTAATGGGGTTGCCTTGTGGTCACTGTTTACCAGAATTGCATTGTTATGTGGTTGGCTGGGGCC  
 GACTGTTGCCCTGTTGCTGTTGGCCTTCATATAAGAAAAAGCAGCCATATGCACAACAACAGCCGTT  
 GTCAAATGATGTTCCATCT

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG222470 representing NM\_009543  
 Red=Cloning site Green=Tags(s)

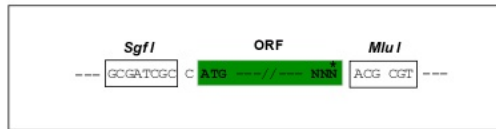
MWLKLFLLLYFLVLFVLARFFEAIVWYETGIFATQLVDPVALSFKKLTILECRGLGYSGLPEKKDVRE  
 LVEKSGDLMGELYSALKEEEASESVSSTNFSGEMHFYELVEDTKDGIWLQVIANDRSPLVGKIHWEKM  
 VKKVSFRFGIRTGFNCSSDPRYCRRRGWVRSTLIMSVPQTSTSKGKVMLKEYSGRKEVEHIFKWITAHA  
 ASRIKTIYNVEHLKEEWNKSDQYWKIYLFANLDQPPAFFSALSIFKFTGRVEFIFVNVENWNKSYMEDI  
 GIYNMPSYILRTPEGIYRYGNHTGEFISLQAMDSFLRSLQPEVNDLFVLSLVNLMAWMDLFITQGATI  
 KRFFVLIISTLGTYNLLIISWLPVLGFLQLPYLDSFYDYSRLRLRYSNNTTTLASWVRADWMFYTSHPALF  
 LSTYLGHGLLIDYFEKKRRRSNNDVANNLEWLSLWDWYTSYLFHPIASFQNFVDSDDWEDPDLFLE  
 RLAFPDWLHPLIPTDYIKNLPWRFKCLGVQSEEMSESSQDTENDSDSDNMDTFSSSKDIFEDKQSVV  
 HSSPGRTSHCDTEACSCANKCESSPCERKRRSYGSHNTDDEMEPDWLTWPAGTLHCTECVCLNFENGCL  
 LLMGLPCGHVHFHQNIVMWLAGGRHCCPVCRWPSYKKKQPYAQQQPLSNDVPS

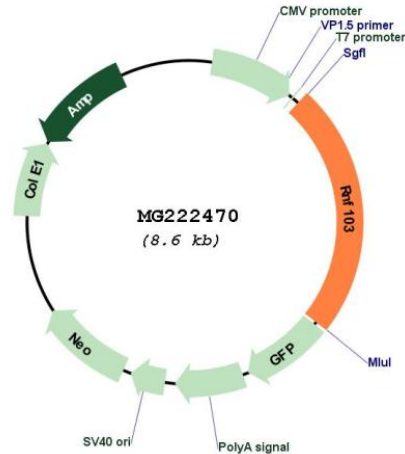
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_009543

**ORF Size:** 2049 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\\_009543.3](#), [NP\\_033569.2](#)

**RefSeq Size:** 3264 bp

RefSeq ORF: 2052 bp

Locus ID: 22644

UniProt ID: [Q9R1W3](#)

Cytogenetics: 6 32.16 cM

**Gene Summary:** This gene encodes a member of the RING finger family of E3 ubiquitin-protein ligases. These proteins catalyze the transfer of the ubiquitin protein from a ubiquitin E2 enzyme to a protein substrate. Homozygous knockout mice for this gene exhibit enhanced anxiety-like behavior. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2015]