

## Product datasheet for **MG209908**

### Rnf139 (NM\_175226) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf139 (NM_175226) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnf139
Synonyms:	4930555P18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MG209908 representing NM\_175226  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCGCGGTTGGGGCCCCCGCAGCAGCAGGTGCGGATGGCCAGCAGCAGGTCTGGGCGGCGCTCGAAG  
TGGCGCTCCGGGTGCCCTGCCTCTACATCATCGACGCCATCTTCAACTCCTACTACGATTCCAGCCAAAG  
CCGGTTCTGCATCGGGCTTCAGATCTTTCTCCGGCTCCTTGGTATAGTTGTATCCAGTATTGTTCTGATC  
TTGTACACAGCATCACTTTCAAGTTTTACATGTACAGCTCAGCCTTTCTATTAGCTGCAACTTCAGTGT  
TGGTGAATTACTATGCTGCTTTGCACATTGACTTCTATGGTGCCTACAACACGTCAGCGTTTGAATCGA  
GTTGCTTCTCGAAAGGGCCCTCACTGTGGATGGCACTCATCGTTCTGCAGCTAACCTTTGAATTGGA  
TATGTCACATTACTGCAGATTCACTCCATCTATTACAGTAAATGATTTTAAATATCTTGGTTTCTATAA  
TTGGCTTAATCACAGAGCTGCCATTACACATCAGAGAGACAGTAGTGCTCATGTCGTCCTTGATTCTCAT  
ATTTAACACAGTCTTGTCTTGGCAGTGAACCTAAGTGGTTTTACTACTCTACTCGGTATGTGACTTGT  
TTAGTGAGGCATATGTACCGAATTTATGGATTACAGTTACTGATGGAGGACACATGGAAGAGGATTCCGT  
TCCCAGACATACTTCGGGTCTTCTGGCTAACAAGAATTACAGCTCAGGCTACAGTGTTAATGTACATTTT  
AAGGATGGCAAATGAACTGAGTCCTTCTTTATTTCTTGGGATGATTTCTGGGACGTCATTTGCAATCTA  
ATAATTAGTGGGTGTGATTCTACACTAACTGTACTAGGCATGAGTGTGTAATTTCTTCAATAGCCCAT  
ATTTGGGCCTTGGAAATTTGGCCTTTATGGATCAACTGAAGAAGATGACAGGCGGCTTGGCTTTGTAGC  
TCCTGTTTTATTTTCACTTTGGCTCTTCAGACTGGTTAAGTGGGCTAAGACCTGAAGAGAGACTTATT  
CGCTTAAGTAGAAACATGTGCCTTTTAACTGCAGTCCTGCATTTTCCATAGACACTTTCTGTGCTGTTTGTCTG  
TTGCCTGTTTCACTTCTCCCTGTCTTACTCAGTTATGTCCTTTGGCATCACTATGCACTAAATACATGGCTG  
TTTGCAGTTACAGCCTTTTGTGTGGAACCTGCTTGAAGGTAATCGTCTCCCTCACTGTCTACACGCTGT  
TCATGATTGATGGCTACTATAACGTCCTCTGGGAAAAGCTTGTGACTATGTCTACTTTGTTGCTCCAC  
GGGCAATATTATCGAATTTATTTGGAGTAGTAATGTTTGGGAATGGGGCTATACCATGATGTTTGGAG  
TCAGGAAGTAAAATTCGGGCTTGTATGATGTGCCTACATGCATATTTAACATCTACTTACAAGTAAAAA  
ATGGCTGGAAGACATTCATGAATCGTAGAACTGCTGTTAAGAAAATTAATTCACTTCTGAGATAAAAGG  
GAGCCACTTGAAGAAATAGATGATGTCTGTGCAATCTGCTATCATGAGTTCACAACATCTGCTCGTATA  
ACACCGTGAACCATTTTCCATGCACCTGCCTTCGGAAATGGCTGTACATTCAGATACTTGTCCAA  
TGTGCCATCAGAAAGTGTACATCGAAGATGAGATCAAGGATAACTCAAATGCATCTAACAACAACGGATT  
TATTGCACCCAATGAAAATCAAACCCAGAGGAGGCTTTAAGAGAGGATGCTGCTGGATCTGACCGAGAA  
CTGAACGAGGATGACAGTACAGACTGTGATGATGATGCTCAAAGAGAAAGAAACGGGGGATTACAGCACA  
CAGGCGCAGCAGCAGCAGCCGAGAATTAATGATGACTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG209908 representing NM\_175226  
 Red=Cloning site Green=Tags(s)

MAAVGPPQQQVRMAQQQVWAALEVALRVPCLYIIDAFNSYYDSSQSRFCIGLQIFLRLLGIVVSSIVLI  
 LSQRSLFKFYMYSSAFLAATSVLVNYAALHIDFYGAYNTSAFGIELLPRKGPSLWMALIVLQLTFGIG  
 YVTL LQIQSIYQLMILNILVPIIGLITELPHIRETVVLMSSLILIFNTVLVAVKWKWFYYSTRYVYL  
 LVRHMYRIYGLQLLMEDTWKRIRFPDILRVFWL TRITAQATVLMYILRMANETESFFISWDDFWDVICNL  
 IISGCDSTLTVLGM SAVISSIAHYLGLGILAF IGSTEEDRRLGFVAPV LFFILALQTGLSGLRPEERLI  
 RLSRNMCLLLTAVLHF IHGMDPVLMSLSASHVSSFHRHFPVLFVSACLFILPVLLSYVLWHHYALNTWL  
 FAVTAFVELCLKVIVSLTVYTLFMIDGYYNVLWEKLD DDDYVYFVRSTGNIIEFIFGVVMFGNGAYTMMFE  
 SGSKIRACMMCLHAYFNIYLQVKNGWKTFMNRRTAVKKINSLPEIKGSHLQEIDDVCAICYHEFTTSARI  
 TPCNHYFHALCLRKWL YIQDTCPMCHQKYYIEDEIKDNSNASNNNGFIAPNENPNPEEALREDAAGSDRE  
 LNEDDSTDCDDDAQRERNGGIQHTGAAAAAAEFNDTD

TRTRPLE - GFP Tag - V

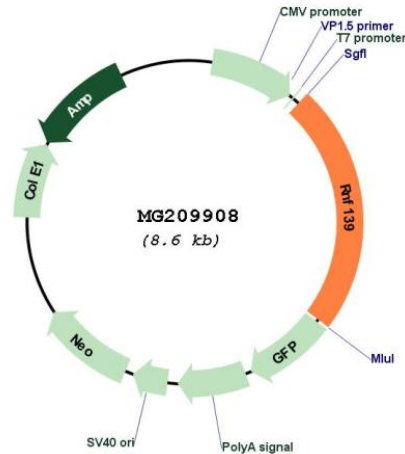
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_175226

**ORF Size:** 2004 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\\_175226.4](#), [NP\\_780435.1](#)

RefSeq Size: 4348 bp

RefSeq ORF: 2007 bp

Locus ID: 75841

UniProt ID: [Q7TMV1](#)

Cytogenetics: 15 D1

**Gene Summary:** E3-ubiquitin ligase; acts as a negative regulator of the cell proliferation through mechanisms involving G2/M arrest and cell death. Required for MHC class I ubiquitination in cells expressing the cytomegalovirus protein US2 before dislocation from the endoplasmic reticulum (ER). Affects SREBP processing by hindering the SREBP/SCAP complex translocation from the ER to the Golgi, thereby reducing SREBF2 target gene expression. Required for INSIG1 ubiquitination. May be required for EIF3 complex ubiquitination. May function as a signaling receptor.[UniProtKB/Swiss-Prot Function]