

## Product datasheet for **MG208011**

### **Rftn2 (BC038341) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rftn2 (BC038341) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rftn2
Synonyms:	2700010E02Rik; 3222401M22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208011 representing BC038341  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTGGGACTTAGGAAGCTGGAAGACCCTGATGAAAGCAGCCCTGGAAAAATATTTTCTACCTGA  
 AGAGACCGCAAGTGGAACAAAGACAGAATTTGCTTATGAATACGCCCTGCTGGACTTTACTTTACAAGC  
 TTCAACAATCCAGACGTCATCAAGATAAATTCAGTCCTGGATATAGTTGCCAAAGTGGAAGACTATTAT  
 CTTAAGGGCTATGTTGTTGGGGCATTACCCAGTTATAACAACCTGTGGGGCAGCGGAAGCACCTTCCAG  
 CAAGTCACCTGTACAGGGCGGTGCTGTCCCGGCTGAAGCTAAGCCCCAAGCATTCTGCAGCAGGCGGACA  
 AAGGCGCAAGGCTTGTGATGGAGGAGTGTCCACTAACTTGTGAGGCACAAGCAAACGACGCTGCAAAG  
 GAACTCATGGACAAGATTAAATGCCGCTGCTAAAAGAGGGATGAAGTTTGTGGGCTGGTCTCCAGTGCT  
 ACTTGCCATCTATGCACTGTAATGGAGCCAGCCAGATGGAGTTGCAGAGTCGGGGCTACACGTGAGACA  
 AGATTCACAAGACAAGCTGCAAAGCTGGAATGAAGGAGCCCTTGGTGGACTTGTCTGAAAGTGGAGTG  
 GAGGAGGAACCTCAGCATGAAAGTGACAGCATCAGACAGAGAGGAACAGCAGCCCCAGCTACGCTAACC  
 CAAAGCGGGGAGAAGCCCCAGATGGTAAGCTGTACATGGTCTTCAATGCTTTTGAGGAAGATGCGGCCAG  
 CTGGGCCATCAGGAAGGTGTCCTGTCCATGAAAGTGACGCGGAAGGGAGCTGTCATCAGCGCTCTGGAC  
 GCCAAGTGGCTAGAACTAACGACATTTTACTATAAGCAAGGCTTCTCTTAATTGACTCTTTTGTGTGCT  
 GGGAGACACCTAAAGGGGACCAGTTACCTAAATCTTTGGAAGGCTTTTTTATCTACGAAGAAGAAGGATC  
 TGGAGTCCCAGGTTCTAACAGGAGAGGAAACGACGCCATTGTGGTGGAGCAGTGGACAGTCATTGAGGGC  
 TGTGAAATTAACAAGATTACGGCCCCCTGCTGCACACCCTGGCTGAGTTTGGATGGCTTCTGACAAGCG  
 TGTTGCCCTACCCGATATTGAGACATGACAGTGAAGGGAATTTGGCTACCAAGCAAGTCGTATTTCTCCA  
 AAGGCCGTTTACGTGGAACCTCAGCTGCTCAAACCCAGAAAGGAAAGGCAGCCGGCTGCTGAAGGGTGAA  
 GACAGAAACAAGGTCAGCAGCAGGAGCCTAGGCCCTGGACACAAATGCATCCCAAGCCGAGGAGGCCGAG  
 CCCCTCTGAGGAGGGCTCCCTCTCTCCGTCCAGGGAGTCTGGACCAAGGAAGCGGCCCGCACAGAG  
 CGACAGCTTCTCTGGTTTCAAGTACAGTGCAGTGTCTCCGGAACTCGATGACGGACAGTTTGACCAG  
 GAAGAGGGCGTGACACAGGTCACCTTGCATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208011 representing BC038341  
 Red=Cloning site Green=Tags(s)

MGCGLRKLDPDESSPGKIFSTLKRQVETKTEFAYEYALLDFTLQASTNPDVIKINSVLDIVAKVEDY  
 LKGYVVGAIHPVIQPVGQRKHLPAHL YRAVL SRLKL SPKHSAAAGQRRARL VMEECP L TCEAQANDA  
 AK ELMDKINAAA KGMKFVGLVSQCYLPSMHCNGASHDGVAE SGLHVRQDSQDNCKGWNEGALGGH  
 LSES  
 GVEEPEQHESGQHQTERNSSPSYANPKRGEAPDGKLYMVFNAFEEDAASWAYQEGVLSMKVTRK  
 GAVISALD ANWLEL TTFYKQGFSLIDSFVCWETPKGDQLPKSLEGGFFIYEEEGSGVPGSNRRG  
 NDAI VVEQWTVIEG CEIKTDYGPLLHTLA EFGWLLTSVLPTPILRH DSEGNLTKQVVFLQRPV  
 TWNSAAQTPERKGSRLKGE DRNKVSSRSLGLDTNASQAAGGRAPLEEGSLSPSRECWTKEERPAQ  
 SDSFSGFS SSSD SVLRELDGQFDQ EEGVTQVTCM

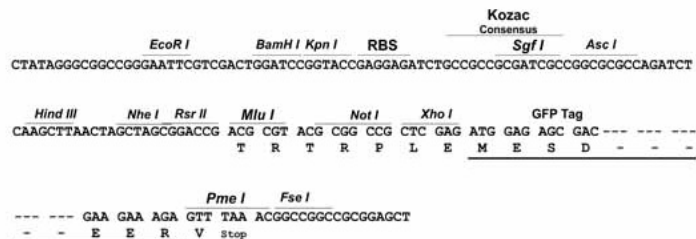
**TRTRPLE** – GFP Tag – V

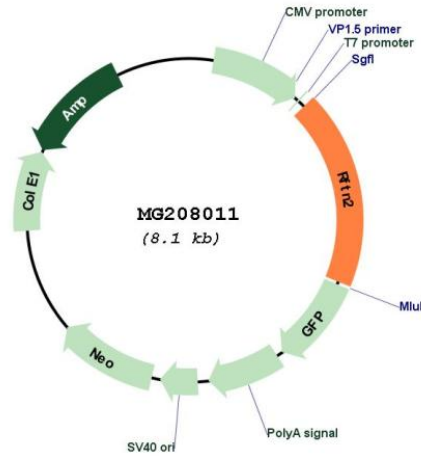
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** BC038341

**ORF Size:** 1502 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:** [BC038341](#), [AAH38341](#)

**RefSeq Size:** 3689 bp

**RefSeq ORF:** 1502 bp

**Locus ID:** 74013

**Cytogenetics:** 1 C1.2

**Gene Summary:** Upon bacterial lipopolysaccharide stimulation, mediates clathrin-dependent internalization of TLR4 in dendritic cells, resulting in activation of TICAM1-mediated signaling and subsequent IFNB1 production (PubMed:27022195). May regulate B-cell antigen receptor-mediated signaling.[UniProtKB/Swiss-Prot Function]