

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**

ATGGGGT**GCGGACTTAGGAAGCTGGAAGACCCTGATGAAAGCAGCCCTGGAAAAATATTTTCTACCTGA**
AGAGACCGCAAGTGAAACAAAGACAGAATTTGCTTATGAATACGCCCTGCTGGACTTTACTTTACAAGC
TTCAACAATCCAGACGTCATCAAGATAAATTCAGTCCTGGATATAGTTGCCAAAGTGGAAGACTATTAT
CTTAAGGGCTATGTTGTTGGGGCATTACCCAGTTATAACAACCTGTGGGGCAGCGGAAGCACCTTCCAG
CAAGTCACCTGTACAGGGCGGTGCTGTCCCGGCTGAAGCTAAGCCCCAAGCATTCTGCAGCAGGCGGACA
AAGGCGCAAGGCTTGTGATGGAGGAGTGTCCACTAACTTGTGAGGCACAAGCAAACGACGCTGCAAAG
GAACTCATGGACAAGATTAATGCCGCTGCTAAAAGAGGGATGAAGTTTGTGGGCTGGTCTCCAGTGCT
ACTTGCCATCTATGCACTGTAATGGAGCCAGCCAGATGGAGTTGCAGAGTCGGGGCTACACGTGAGACA
AGATTCACAAGACAAGCTGCAAAGCTGGAATGAAGGAGCCCTTGGTGGACTTGTCTGAAAGTGGAGTG
GAGGAGGAACCTCAGCATGAAAGTGACAGCATCAGACAGAGAGGAACAGCAGCCCCAGCTACGCTAACC
CAAAGCGGGGAGAAGCCCCAGATGGTAAGCTGTACATGGTCTTCAATGCTTTTGAGGAAGATGCGGCCAG
CTGGGCCATCAGGAAGGTGTCCTGTCCATGAAAGTGACGCGGAAGGGAGCTGTCATCAGCGCTCTGGAC
GCCAAGTGGCTAGAACTAACGACATTTTACTATAAGCAAGGCTTCTCTTAAATTGACTCTTTTGTGTGCT
GGGAGACACCTAAAGGGGACCAGTTACCTAAATCTTTGGAAGGCTTTTTTATCTACGAAGAAGAAGGATC
TGGAGTCCCAGGTTCTAACAGGAGAGGAAACGACGCCATTGTGGTGGAGCAGTGGACAGTCATTGAGGGC
TGTGAAATTAACAAGATTACGGCCCCCTGCTGCACACCCTGGCTGAGTTTGGATGGCTTCTGACAAGCG
TGTTGCCCTACCCGATATTGAGACATGACAGTGAAGGGAATTTGGCTACCAAGCAAGTCGTATTTCTCCA
AAGGCCGGTTACGTGGAACCTCAGCTGCTCAAACCCAGAAAGGAAAGGCAGCCGGCTGCTGAAGGGTGAA
GACAGAAACAAGGTCAGCAGCAGGAGCCTAGGCCCTGGACACAAATGCATCCCAAGCCGAGGAGCCGAG
CCCCTCTTGAGGAGGGCTCCCTCTCTCCGTCCAGGGAGTCTGGACCAAGGAAGCGGCCCGCACAGAG
CGACAGCTTCTCTGGGTTCAGTAGCAGTGCAGTGTCTCCGGAACTCGATGACGGACAGTTTGACCAG
GAAGAGGGCGTGACACAGGTCACCTGCATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

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

MGCGLRKLEDPDESSPGKIFSTLKRQVETKTEFAYEYALLDFTLQASTNPDVIKINSVLDIVAKVEDY
 LKGYYVGAIHPIQPVGQRKHLPAHL YRAVL SRLKLSPKHSAAAGQRRARL VMEECP L TCEAQANDA
 AK ELMDKINAAA KRMKFVGLVSQCYLPSMHCNGASHDGVAE SGLHVRQDSQDNCKGWNEGALGGH
 SESGV EEPQHESGQH QTERNSSPSYANPKRGEAPDGKLYMVFNAFEEDAASWAYQEGVLSMKVTRK
 GAVISALD ANWLEL TTFYKQGFSLIDSFVCWETPKGDQLPKSLEGGFFIYEEEGSGVPGSNRRG
 NDAI VVEQWTVIEG CEIKTDYGPLLHTLA EFGWLLTSVLPTPILRH DSEGNL ATKQVVFLQRPV
 TWNSAAQTPERKGSRLKGE DRNKVSSRSLGLDTNASQAAGGRAPLEEGSLSPSRECWTKEERPAQ
 SDFS SSGFSSDSV LRELDGQFDQ EEGVTQVTCM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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

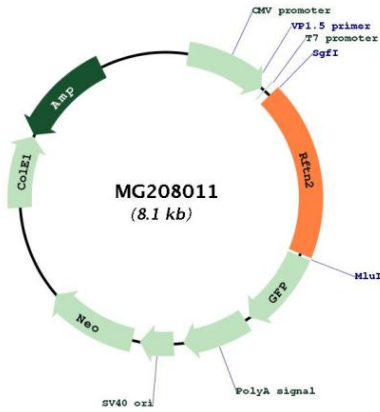
Locus ID: 74013

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]

Product images:



Circular map for MG208011