

## Product datasheet for **MR208011**

### **Rftn2 (NM\_028713) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rftn2 (NM_028713) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rftn2
Synonyms:	2700010E02Rik; 3222401M22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208011 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGT**GCGGACTTAGGAAGCTGGAAGACCCTGATGAAAGCAGCCCTGGAAAAATATTTTCTACCTGA**  
 AGAGACCGCAAGTGGAAACAAAGACAGAATTTGCTTATGAATACGCCCTGCTGGACTTTACTTTACAAGC  
 TTCAACAATCCAGACGTCATCAAGATAAATTCAGTCCTGGATATAGTTGCCAAAGTGGAAAGACTATTAT  
 CTTAAGGGCTATGTTGTTGGGGCCATTACCCAGTTATAACAACCTGTGGGGCAGCGGAAGCACCTTCCAG  
 CAAGTCACTGTACAGGGCGGTGCTGTCCCGGCTGAAGCTAAGCCCCAAGCATTCTGCAGCAGGGCGACA  
 AAGGCGCGCAAGGCTTGTGATGGAGGAGTGTCCACTAACTTGTGAGGCACAAGCAAACGACGCTGCAAAG  
 GAACTCATGGACAAGATTAAATGCCGCTGCTAAAAGAGGGATGAAGTTTGTGGGCTGGTCTCCAGTGCT  
 ACTTGCCATCTATGCACTGTAATGGAGCCAGCCAGATGGAGTTGCAGAGTCGGGGCTACACGTGAGACA  
 AGATTCACAAGACAAGCTGCAAAGGCTGGAATGAAGGAGCCCTTGGTGGACTTGTCTGAAAGTGGAGTG  
 GAGGAGGAACCTCAGCATGAAAGTGGACAGCATCAGACAGAGAGGAACAGCAGCCCCAGCTACGCTAACC  
 CAAAGCGGGGAGAAGCCCCAGATGGTAAGCTGTACATGGTCTTCAATGCTTTTGAGGAAGATGCGGCCAG  
 CTGGGCCATCAGGAAGGTGTCCTGTCCATGAAAGTGACGCGGAAGGGAGCTGTCATCAGCGCTCTGGAC  
 GCCAAGTGGCTAGAACTAACGACATTTTACTATAAGCAAGGCTTCTCTTAAATTGACTCTTTTGTGTGCT  
 GGGAGACACCTAAAGGGGACCAGTTACCTAAATCTTTGGAAGGCTTTTTTATCTACGAAGAAGAAGGATC  
 TGGAGTCCCAGGTTCTAACAGGAGAGGAAACGACGCCATTGTGGTGGAGCAGTGGACAGTCATTGAGGGC  
 TGTGAAATTAACAAGATTACGGCCCCCTGCTGCACACCCTGGCTGAGTTTGGATGGCTTCTGACAAGCG  
 TGTTGCCTACCCGATATTGAGACATGACAGTGAAGGGAATTTGGCTACCAAGCAAGTCGATTTTCTCCA  
 AAGGCCGTTTACGTGGAAGTACGCTGCTCAAACCCAGAAAGGAAGGCAGCCGGCTGCTGAAGGTTGAA  
 GACAGAAACAAGGTCAGCAGCAGGAGCCTAGGCCTGGACACAAATGCATCCCAAGCCGAGGAGGCCGAG  
 CCCCTCTGAGGAGGGCTCCCTCTCTCCGTCCAGGGAGTCTGGACCAAGGAAGAGCGGCCCGCACAGAG  
 CGACAGCTTCTCTGGTTCAAGTACAGTGCAGTGTCTCCGGAACTCGATGACGGACAGTTTGACCAG  
 GAAGAGGGCGTGACACAGGTCACCTTGCATG

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>MR208011 protein sequence  
 Red=Cloning site Green=Tags(s)

MGCGLRKLKLEDPDESSPGKIFSTLKRQVETKTEFAYEYALLDFTLQASTNPDVIKINSVLDIVAKVEDYY  
 LKGYVVGAIHPVIQPVGQRKHLPAASHLYRAVL SRLKLSPKHSAAGGQRRARLVMEECPLTCEAQANDA  
 AKELMDKINAAAKRGMKFVGLVSYQLPSMHCNGASHDGVAESGLHVRQDSQDNCKGWNEGALGGHLS  
 ESGV EEPQHESGQHQTERNSSPSYANPKRGEAPDGKLYMVFNAFEEDAASWAYQEGVLSMKVTRKGA  
 VISALD ANWLELTFYKQGFSLIDSFVCWETPKGDQLPKSLEGGFFIYEEEGSGVPGSNRRGND  
 AIVVEQWTVIEG CEIKTDYGPLLHTLAEFGWLLTSVLPTILRHDSGNLTKQVVFVLRPVTWNSAAQ  
 TPERKGSRLKGE DRNKVSSRSLGLDTNASQAAGRAPLEEGSLSPSRECWTKEERPAQSDSFS  
 SGFSSSDSVLRELDGQFDQ EEGVTQVTCM

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_028713

**ORF Size:** 1503 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\\_028713.1](#), [NP\\_082989.1](#)

**RefSeq Size:** 3689 bp

**RefSeq ORF:** 1503 bp

**Locus ID:** 74013

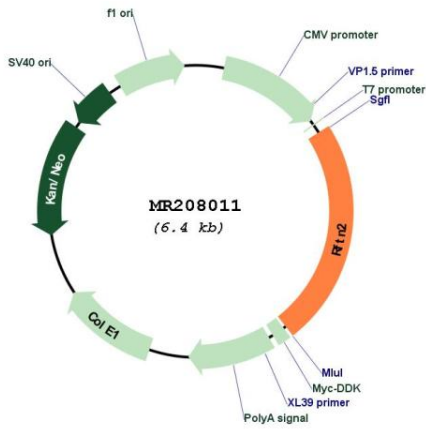
**UniProt ID:** [Q8CHX7](#)

**Cytogenetics:** 1 C1.2

MW: 55 kDa

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 MR208011