

## Product datasheet for **MC218927**

### **Rftn1 (NM\_181397) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rftn1 (NM_181397) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rftn1
Synonyms:	2310015N21Rik; AI853526
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218927 representing NM\_181397  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTTGCAGTTTGAACAAGCTGGAGAAACGTGAAGAAAAGCGCCTGGGAACATTTATCAACTCTGA  
 AGAGACCTCAGGTGGAGACCAAAGTAGATGTGACCTATGAGTACTGCTTTCTAGAGTTCACCACACTGAC  
 TGCCGCGGAGCTGCCGAGATCCTCCGCCACGAGGTTAGCCTCTCTGCGGGACCTGCCTGACCAGTTCTG  
 GAGCTGTACCAACAAGGCTTCTCACTGGCCGCCCTGCACCCATTTGTGCAGCCAACCCGAGGCAAGAGA  
 AGATCCTCCTGGAACACATCTTTGCGGCCATCCTGGTCAAGAAAACCAACAGGTCTCAGAAGGCTGAGCT  
 TCACGACGAAGGCTACACCCTGGAATTGGATTACTGCTCCTCTTAGAACACCTGGCCGACCAGAAGCTC  
 ATCCCAGAGTTTCATTAAGAAGGTGCAGGAGGCCCGCAGTCAGGGCTTGAAGTTTGTAGCGTGGTCCCC  
 AGTACCAGCCCTCGGTGAGCTCAGCAGGCAGCCGGCGTCTCAAGCCTGTTGCCAACAGTGTGAAGATGC  
 CAGGGATGTGAAATGCACCTTAGGGGACCGTTTCATCCTTGAAAAATGATACTCCGAAGGCTGCAGAGACG  
 GATGCTGCCACTGCAGGAGTGAACCGAAGACCGGAGACCAAACAGGATCCACAGGGGACGTGCCAGTG  
 CCCAGCAGCCTGGCATTCCCTCTCCCTCGGCAGAGAATGAGGCTGGCGAGTTTCCACTGCGGGGTTTGCA  
 GCCAGCACTGGATAGATCAGAGGGCGACCCCTCAAATGGGCTGAAGAGCTGCCCTCCAGGAAGATGGAG  
 ATCTTCGCTTTTTCAACAGACCGAAGGCCAGCAGAAATGTCCGCGAGTACTACCTGTCACCATCCCCC  
 TCCAGGTCTCCAAGAACGGCCAGACAGTGAAGCAGTCTAGACGCCAGCTGGCTGGAACACATGAGTGACCA  
 TTTCCGGAAAGGCGGTGTGCTGGTGAACGCCGCTTCCAGCTTGGCATGGCCAATGATTCCTTCTATGGC  
 CTGACAGATGGAGTATTCATCTTTGAAGCTGTTCCACAGAAGATAACAGAACCACACAGGGCTATGACG  
 CTATTGTTGTGGAACAATGGACAGTCTAGAAGGTACAGAGGTACAGACCGACTACATGCCCTGCTGAA  
 CTCGCTGGCGCCCTACGGATGGCAGTCACTGCTGTGCTGCCAACGCCTATACTCAAGACTACCAGGGAA  
 GGGAACTGTCCACCAAGCAGATTGTGTTTCTTACAGACCATGTCTACCTCAGAAAACCAAGAAGAGGG  
 AATCTAAGTTCAGTGGCGATTCTCCCGAACGAGATCCACGGCAGGCAGACAAGGAAATCCAAAGGGAA  
 ACTCAGTGCCAGCAACAAGCAGCAAGCAGAAGAGAATGAGAAGAATCTGGAAGACCAGTTCTCCAAGGCT  
 GGAGATGTGGAAACTGTGTGCTGGGGCACCGCAGTGGGGCAGAGCCTCTGAGGTGAGGGAGCAAAGGC  
 AGGGCTCAGCAGCTGTGCAGAATGGTCCCCTGGCCACAACAGGGACTCGGTGGCCCTTAGGCCTCGAA  
 TCCAGAGCTGAGGCTGAGCTTGTGCAGGCCCACTCCAACAGAAGCAAAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_181397

**Insert Size:** 1665 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_181397.2](#), [NP\\_852062.1](#)

**RefSeq Size:** 2802 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 76438

**UniProt ID:** [Q6A0D4](#)

**Cytogenetics:** 17 C

**Gene Summary:** Involved in protein trafficking via association with clathrin and AP2 complex (By similarity). Upon bacterial lipopolysaccharide stimulation, mediates internalization of TLR4 to endosomes in dendritic cells and macrophages, and internalization of poly(I:C) to TLR3-positive endosomes in myeloid dendritic cells and epithelial cells; resulting in activation of TICAM1-mediated signaling and subsequent IFNB1 production (PubMed:27022195). Involved in T-cell antigen receptor-mediated signaling by regulating tyrosine kinase LCK localization, T-cell dependent antibody production and cytokine secretion (PubMed:19414744). May regulate B-cell antigen receptor-mediated signaling (By similarity). May play a pivotal role in the formation and/or maintenance of lipid rafts (By similarity).[UniProtKB/Swiss-Prot Function]