

Product datasheet for **SC127336**

RFTN1 (NM_015150) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFTN1 (NM_015150) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFTN1
Synonyms:	MIG2; PIB10; PIG9; RAFTLIN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127336 sequence for NM_015150 edited (data generated by NextGen Sequencing)

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ATGGGTTGCGGATTGAACAAGTTAGAGAAACGTGATGAAAAACGGCCTGGGAATATTTAT
TCAACTTTGAAGAGGCCTCAGGTGGAACCAAGATAGATGTGCTTATGAATACCGCTTC
CTGGAGTTCACGACTCTGAGTGTGCGGAGCTCCCTGGGTCTCAGCAGTGAGGCTGGCC
TCCCTGCGTGACCTGCCCGCCAGCTCCTGGAGCTGTACCAGCAGGGCTTCTCGTGGCG
GCCCTGCACCCCTTCGTGCAGCCACCCATGAGCGGGAGAAGACGCCCTGGAGCACATC
TTTAGAGCCATCCTGATCAAGAAAACCGACAGATCTCAGAAAACCTGATCTTCACAAATGAA
GGCTACATCTTGGAATTAGATTGCTGTTCTCCTTAGACCACCCGACAGACCAGAAAACCTC
ATCCCAGAGTTTATTAAGAAGATCCAGGAGGCTGCAAGCCAGGGCCTGAAATTCGTTGGT
GTTATACCTCAGTACCATTCTCTGTGAACCTCGGCAGGCAGCAGTGCTCCGGTGTCTACT
GCCAACAGCACCGAGGATGCCAGAGATGCAAAAAACGCACGTGGGGATCACGCGTCACTG
GAGAATGAGAAACCGGGGACTGGGGATGTGTGACGTGCTCCGGCTGGGAGAAACCAAGC
CCAGAGCCAGCTCAGGCCCCAGAGGGGAGGTGCCCTCGCCAAGCAGCCAGCTCACCC
TCCGGAGAGGGAGATGGTGGAGAACTTTACCACAGGGGGTGAGCAAGACACTGGATGGA
CCGGAGAGCAACCCCTTGAGAGTGATGAAGAGCCACTCTCAGGGAAAATGGAGATCTTC
ACCCCTTTTCAACAAACCGAAGAGCCATCAGAAAGTCCCGGCAATACTACCTGTCAACCAT
CCTCTCCATGTCTCCAAGAATGGCCAGACAGTGAGCGGTTTGGACGCCAACTGGTTAGAG
CACATGAGCGACCACTTCCGGAAGGAGGCATGCTGGTGAACGCAGTCTTCTACCTTGA
ATAGTGAATGATTCTTACATGGCTTGACAGATGGAGTATTATCTTTGAAGCTGTTTCC
ACAGAAGATAGCAAAACCATACAGGGCTATGATGCTATTGTGGTTGAACAATGGACAGTC
CTGGAAGGTGTGAAAGTGCAGACAGACTACGTGCCCTGCTGAACTCGCTGGCGGCTAT
GGCTGGCAGCTCACCTGTGTCTACCAACTCCCGTCTGCAAGACTACCAGCGAGGGGAGT
GTATCCACCAAGCAGATTGTCTTTCTTCCAGAGACCGTGTCTACCTCAGAAAATCAAGAAG
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AAATCAAAAGGTAAACTCAGTGCCAGAGACAAACAACAGCAGAAGAAAATGAGAAGAAC
TTAGAAGACCACTTCCAAAGCTGGAGACATGGGAAACTGTGTTTCGGGACAGCAGCAG
GAGGGTGGAGTCTCCGAGGAGATGAAGGGCCCTGTCCAAGAGGACAAGGGAGAACAGCTG
TCCCTGGTGGCCTGCTGTGTGGGGTGGGTGTGGAGGGTGAGGCTGTGAGAATGGTCTCT
GCCAGCCACAGCAGGGCCCTGGTGGGGATTGCACTGGGCACTCAATCCTGGAGAGGAT
GCCAGGGACGGGGATGCTGAGGAAGTCAGAGAGCTTGGTACGGTTGAAGAAAACCTGA
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Clone variation with respect to NM_015150.1
1296 t=>g;1488 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015150 unedited

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ACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGACGCACCGATCGCCGAGGGAC
AGACACACGACCACGCGCGGCCACCGCCACGCCCTCCACCCACCGCGCCCAAGTCTCC
CCGCGCCGCTCCTCTGTATGGCACAACCTTTCTCCCGGGACGGAACACGCTGCCTCAG
GGAGCCCAGCAGCGCGCTTCTCCTCCGCGGTCCCATACGCTGCTGAAATGGGTTGCGG
ATTGAACAAGTTAGAGAAACGTGATGAAAAACGGCCTGGGAATATTTATTTCACTTTGAA
GAGGCCTCAGGTGGAACCAAGATAGATGTGCTTATGAATACCGCTTCTGGAGTTTAC
GACTCTGAGTGTGCGGAGCTCCCTGGGTCTCAGCAGTGAGGCTGGCCTCCCTGCGTGA
CCTGCCCGCCAGCTCCTGGAGCTGTACCAGCAGGGCTTCTCGCTGGCGGCCCTGCACCC
CTTCGTGCAGCCACCCATGAGCGGGAGAAGACGCCCTGGAGCACATCTTTAGAGCCAT
CCTGATCAAGATAACCGACAGATCTCAGAACTGATCTTCACAATGAAGGGCTACATCT
TGGAATTAGATTGCTGGTCTCCTTAGACCCACCGACAGACCAGAAAACCTATCCCAGAGT
TCATTAAGAAGTCCAGGAGGGCTGCAGCCAGGCCTGAANNCTCGTTGGTGTATACCTCAG
TACATTCTCTGTGAACCTCGCAGGCACAGTGCTCCGGTGTCTACTGCCACAGCACCGAGA
TGCCAGAAAGCAAAAACCGCGGGGATACGCCTACTGAAATGAAACCGGGACTGGGGAT
GGGGCAGGCTCCGGCTGGAAAACCAAGCAAGACCACCTAGCCAGGGGGGGGGCCCTGG
CAGGACCCATTACCTCGGAAGGGAAAGGGGGAA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015150 unedited <pre> NTTCTAGCTTGACCGCGGCCGCTTTCTANATCGAGTTTTTTTTTTTTTTTCTACTAAC TCATAGATGATTATTGCCGTAAGTAACTAAACAAGAGAAGAGACAGGCTGTGGGTTTGG TCAAGACAATCAGCATTCCCTCTCCAAGGTTGCCAGTTGCATCTACCTAAAGCCTTAAT ACTTTCTGGACGATATACACATGATAAACACAGCATACATGGGTAACAACCTTGACCAATG TTACACTGATTAATAATAGCACATAACAAGGGCGCCAGCCAGTCCCGATGCCCTGAAGTGA CAGAAGTAATGTGGTTTGTATGATGTGCTGAGTACAAAACCTTTAAAAACAACCTTTTGG CATTAACTACTAACACAGAATACTTCCTTGAACATTCTGCAAAAGTAGGTGCAGAGACAGA ATTACTTCTTCATTTCCAGATTACCAGTATCTATAGGACTATTTTGAGAAAAGCTGGGAG GCGGAGACCTCCCTCCCAATGTCATTTTCTTGTCAAAGCAGAAGAGTCGAAGGGGT TTAGGTGGAGGAGGGCAGCTGACAGGGCTCCTGGAGTTGTTAAGTCACCAAGTAGCTGCA GGGGATGGACACTGCCCCACACGATGTGGGATGAACAGCAGCCTTGTTTGTAGCCCAGG GTGTCCATGGAATTGACCCGAATGCTCCCTGNAGGCCCTGTGGCGAGGACAGGCACTGGA TGGTCCAGACCCTCNTGCTGNNAGAGTGNTGGAGCCAGNACTGGGCCTTCAGCCATGAGG NCTAGAATAACCTGACCTCTNGCATTCTACACTGGGTCAATTATGACACCTTTCAGTGGAT GTGCAAAACCACACTGTCAGAACCTGCCCTGGAGGCTCAGTGAGCCACAAG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_015150
Insert Size:	3080 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:	<u>NM_015150.1, NP_055965.1</u>
RefSeq Size:	3033 bp
RefSeq ORF:	1737 bp
Locus ID:	23180
UniProt ID:	<u>Q14699</u>
Cytogenetics:	3p24.3

Gene Summary:

Involved in protein trafficking via association with clathrin and AP2 complex (PubMed:27022195, PubMed:21266579). 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, PubMed:21266579). Involved in T-cell antigen receptor-mediated signaling by regulating tyrosine kinase LCK localization, T-cell dependent antibody production and cytokine secretion (By similarity). May regulate B-cell antigen receptor-mediated signaling (PubMed:12805216). May play a pivotal role in the formation and/or maintenance of lipid rafts (PubMed:12805216).[UniProtKB/Swiss-Prot Function]