

Product datasheet for **SC313301**

RUFY4 (NM_198483) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUFY4 (NM_198483) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUFY4
Synonyms:	ZFYVE31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC313301 representing NM_198483.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCAGAAGAGGGAGCCATCCTCAAGGTCACCAAGACCTAAGAGCTGCCGTCTCTGCCATCCTCCAG
GGCTATGGGGATGGGCAGGGGCCAGTGACGGACACCAAGTCCCGAGCTGCACAGACTCTGTGGCTGCCTG
GAGCTGCTGCTGCAGTTTGACCAGAAAGAGCAGAAGAGCTTCCTGGGGCCTCGGAAGGATTACTGGGAC
TTTCTCTGCACTGCCCTACGACGGCAGCGGGGAAACATGGAGCCAATCCACTTTGTCGGTCCAGGAC
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GAGGCCCTGCAGCTTTGCCTCCTGAACCTCAGAGCTCACCAGGGAATGGTATGGACCCCGAGCCCTCTG
CTCTGCCCAGAACGCCAAGAAGACATCTGGACTCTCTATGCTCTCAATGGGTGGCCTTCGAGTTG
GACCTCCAGCAGCCAGACCTGGATGGAGCTGGCCCATGTTCTCAGAGTCACGCTGCTCCAGTTCACCC
CAAACCCAGGGAAGGAGACCCAGAAAAACAAAGATGCCCAAAGAAGATCCAGCCGCATATGGAGGG
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CAGCAGCTGGCAGGGCTTCCAGGTCCCAGCAACAAAGGCATCTTCCTTTCTTTTGGAAAAAGAGGGG
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CAGGAGGAAAGAGCCCCATGGATTGAGATCTTCCTGGGGAACCAACACCCAGCACCAGGGACAGGGG
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ATCAAGAGCCTCAGACTTGGGCTCCGGAAGGCTGAGGAGCAGGCCAGGCCAGGAGCAGCTGCTGAGG
GAGCAGGAGGGGAGCTGCAGGCACTTCGGGAGCAGCTCAGCAGGTGTCAGGAAGAGAGCCGAGCTG
CAGGCACAGCTGGAGCAGAAGCAACAGGAGGCTGAGAGGAGGGATGCCATGTACCAGGAGGAGCTTGGA
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CGATTTTCTCGGCGGTATCCATGCAGGCTCTGTGGAGGCTGCTCTGCCATGCTGCTCCATGGATTAC
AAGAAGAGAGACCGCTGTGCCACCCTCGCCCCAGGGAAGAGAAGCCAGGTACCTTGA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_198483

Insert Size: 1716 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_198483.3</u>
RefSeq Size:	2777 bp
RefSeq ORF:	1716 bp
Locus ID:	285180
UniProt ID:	<u>Q6ZNE9</u>
Cytogenetics:	2q35
MW:	64.3 kDa
Gene Summary:	Positively regulates macroautophagy in primary dendritic cells. Increases autophagic flux, probably by stimulating both autophagosome formation and facilitating tethering with lysosomes. Binds to phosphatidylinositol 3-phosphate (PtdIns3P) through its FYVE-type zinc finger.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the shorter transcript but encodes the supported protein. The exon combination of this variant lacks full-length support in human; it is predicted based on alignments of partial human transcripts and homologous transcripts from mouse GenelD:435626.