

## Product datasheet for **SC310735**

### **RUFY1 (NM\_001040452) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RUFY1 (NM_001040452) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUFY1
Synonyms:	RABIP4; ZFYVE12
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001040452, the custom clone sequence may differ by one or more nucleotides

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ATGATGGAGGAGCGTGCCAACCTGATGCACATGATGAACTCAGCATCAAGGTGTTGCTC
CAGTCGGCTCTGAGCCTGGGCCGAGCCTGGATGCGGACCATGCCCCCTGCAGCAGTTC
TTTGTAGTGATGGAGCACTGCCTCAAACATGGGCTGAAAGTTAAGAAGAGTTTTATTGGC
CAAAATAAATCATTCTTTGGTCTTTGGAGCTGGTGGAGAACTTTGTCCAGAAGCATCA
GATATAGCGACTAGTGTAGAAATCTTCCAGAATTAAGACAGCTGTGGGAAGAGGCCGA
GGTGGCTTTATCTTGCCTCATGCAAAAGAACTGGCAGATTATCTGAAAGTGCTTATA
GACAATAAACATCTCTTAAGCGAGTTCTATGAGCCTGAGGCTTTAATGATGGAGGAAGAA
GGGATGGTGATTGTTGGTCTGCTGGTGGGACTCAATGTTCTCGATGCCAATCTCTGCTTG
AAAGGAGAAGACTTGATTCTCAGGTTGGAGTAATAGATTTTTCCCTCTACCTTAAGGAT
GTGCAGGATCTTGATGGTGGCAAGGAGCATGAAAGAATTACTGATGTCCTTGATCAAAAA
AATTATGTGGAAGAACTTAACCGGCACTTGAGCTGCACAGTTGGGGATCTCAAACCAAG
ATAGATGGCTTGGAAAAGACTAACTCAAAGCTTCAAGAAGAGCTTTCAGCTGCAACAGAC
CGAATTTGCTCACTTCAAGAAGAAGCAGCAGCTTAAAGAGAACAAAATGAATTAATTCGA
GAAAGAAGTGAAAAGAGTGTAGAGATAACAAAACAGGATACCAAAGTTGAGCTGGAGACT
TACAAGCAAACCTCGGCAAGGTCTGGATGAAATGTACAGTGATGTGTGGAAGCAGCTAAAA
GAGGAGAAGAAAGTCCGGTTGGAAGTGGAAAAAGAACTGGAGTTACAAATTGGAATGAAA
ACCGAAATGGAAATTGCAATGAAGTTACTGGAAAAGGACACCCACGAGAAGCAGGACACA
CTAGTTGCCCTCCGCCAGCAGCTGGAAGAAGTCAAAGCGATTAATTTACAGATGTTTCAC
AAAGCTCAGAATGCAGAGAGCAGTTTGCAGCAGAAGAATGAAGCCATCACATCCTTTGAA
GGAAAAACCAACCAAGTTATGTCCAGCATGAAACAAATGGAAGAAAGTTGCAGCACTCG
GAGCGGGCGAGGCAGGGGGCTGAGGAGCGGAGCCACAAGCTGCAGCAGGAGCTGGGCGGG
AGGATCGGCGCCCTGCAGCTGCAGCTCTCCAGCTGCACGAGCAATGCTCAAGCCTGGAG
AAAGAATTGAAATCAGAAAAAGAGCAAAGACAGGCTCTTACGCGGAATTACAGCACGAG
AAAGACACTTCTCTCTACTCAGGATGGAGCTGCAACAAGTGGAAAGACTGAAAAAGGAG
TTGCGGGAGCTTCAAGGACGAGAAGGCAGAGCTGCAGAAGATCTGCGAGGAGCAGGAACAA
GCCCTCCAGGAAATGGGCTGCACCTCAGCCAGTCCAAGCTGAAGATGGAAGATATAAAA
GAAGTGAACCAGGCACTGAAGGGCCACGCTGGCTGAAAGATGACGAAGCGACACTGT
AGGCAGTGTGAGAAGGAGTTCTCCATTTCCGGAGAAAGCACCCTGCCGAACTGTGGC
CACATCTTCTGCAACACCTGCTCCAGCAACGAGCTGGCCCTGCCCTCCTACCCAAAGCCG
GTGCGAGTGTGCGACAGCTGCCACACCCTGCTCCTGCAGCGCTGCTCCTCCACGGCTCC
TGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001040452
- 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:** [NM\\_001040452.1](#), [NP\\_001035542.1](#)

**RefSeq Size:** 2439 bp

**RefSeq ORF:** 1803 bp

**Locus ID:** 80230

**UniProt ID:** [Q96T51](#)

**Cytogenetics:** 5q35.3

**Protein Pathways:** Endocytosis

**Gene Summary:** This gene encodes a protein that contains a RUN domain and a FYVE-type zinc finger domain. The encoded protein binds to phosphatidylinositol-3-phosphate (PI3P) and plays a role in early endosomal trafficking, tethering and fusion through interactions with small GTPases including Rab4, Rab5 and Rab14. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]  
Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. Variants 2 and 3 encode the same isoform (b) which has a shorter N-terminus compared to isoform a.