

## Product datasheet for **SC324310**

### **RUFY1 (NM\_001040451) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RUFY1 (NM_001040451) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUFY1
Synonyms:	RABIP4; ZFYVE12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001040451.1  
 CTGGGAGAGGCCTCTGGAGCAGGAGGCCAGTGGCTCTTCTGACCCAAGGCCCGCCGCTC  
 CAGCTTCTAAGTGCCAGATGATGGAGGAGCGTGCCAACCTGATGCACATGATGAACTCA  
 GCATCAAGGTGTTGCTCCAGTCCGCTCTGAGCCTGGGCCGAGCCTGGATGCGGACCATG  
 CCCCTTGACAGCAGTTCTTTGTAGTGATGGAGCACTGCCTCAAACATGGGCTGAAAGTTA  
 AGAAGAGTTTTATTGGCCAAAATAAATCATTCTTTGGTCCTTTGGAGCTGGTGGAGAAAC  
 TTTGTCCAGAAGCATCAGATATAGCGACTAGTGTGAGAAATCTCCAGAATTAAGACAG  
 CTGTGGGAAGAGGCCGAGCGTGGCTTTATCTTGCACATGCAAAAAGAACTGGCAGATT  
 ATCTGAAAGTGCTTATAGACAATAAACATCTCTTAAGCGAGTTCTATGAGCCTGAGGCTT  
 TAATGATGGAGGAAGAAGGGATGGTGATTGTTGGTCTGCTGGTGGGACTCAATGTTCTCG  
 ATGCCAATCTCTGCTTGAAGGAGAAGACTTGGATTCTCAGGTTGGAGTAATAGATTTTT  
 CCCTCTACCTTAAGGATGTGCAGGATCTTGATGGTGGCAAGGAGCATGAAAGAATTACTG  
 ATGTCCTTGATCAAAAAATTATGTGGAAGAACTTAACCGGCACTTGAGCTGCACAGTTG  
 GGGATCTTCAAACCAAGATAGATGGCTTGAAAAGACTAACTCAAAGCTTCAAGAAGAGC  
 TTTGAGCTGCAACAGACCGAATTTGCTCACTTCAAGAAGAACAGCAGCAGTTAAGAGAAC  
 AAAATGAATTAATTCGAGAAAAGAGTGAAGAGTGTAGAGATAACAAAACAGGATACCA  
 AAGTTGAGCTGGAGACTTACAAGCAAACCTCGGCAAGGTCTGGATGAAATGTACAGTGATG  
 TGTGGAAGCAGCTAAAAGAGGAGAAGAAAGTCCGGTTGGAAGTGGAAAAAGAACTGGAGT  
 TACAAATTGGAATGAAAACCGAAATGGAATGCAATGAAGTTACTGGAAAAGGACACCC  
 ACGAGAAGCAGGACACACTAGTTGCCCTCCGCCAGCAGCTGGAAGAAGTCAAAGCGATTA  
 ATTTACAGATGTTTCACAAAGCTCAGAAATGCAGAGAGCAGTTTGCAGCAGAAGAATGAAG  
 CCATCACATCCTTTGAAGGAAAAACCAACCAAGTTATGTCCAGCATGAAACAAATGGAAG  
 AAAGTTGCAGCACTCGGAGCGGGCAGGAGCTGAGGAGCGGAGCCACAAGCTGC  
 AGCAGGAGCTGGCGGGAGGATCGGCGCCCTGCAGCTGCAGCTCTCCAGCTGCACGAGC  
 AATGCTCAAGCCTGGAGAAGAATTGAAATCAGAAAAAGAGCAAAGACAGGCTCTTCAGC  
 GCGAATTACAGCACGAGAAAAGACACTTCCTCTCTACTCAGGATGGAGCTGCAACAAGTGG  
 AAGGACTGAAAAAGGAGTTGCGGGAGCTTCAAGGACGAGAAGGCAGAGCTGCAGAAGATCT  
 GCGAGGAGCAGGAACAAGCCCTCCAGGAAATGGGCCTGCACCTCAGCCAGTCCAAGCTGA  
 AGATGGAAGATATAAAGAAGTGAACCAGGCACTGAAGGGCCACGCTGGCTGAAAGATG  
 ACGAAGCGACACACTGTAGGCAGTGTGAGAAGGAGTTCTCCATTTCCCGGAGAAAGCACC  
 ACTGCCGAACTGTGGCCACATCTTCTGCAACACCTGCTCCAGCAACGAGCTGGCCCTGC  
 CCTCTACCCCAAGCCGGTGCAGTGTGCGACAGCTGCCACACCTGCTCCTGCAGCGCT  
 GCTCCTCCACGGCCTCCTGAACGTCCGTCTCAGGAGCACAGCCTCACGGACAGTGCCAA  
 ACCCTGTGGGTCTCCAGGGGCTTGGGAAATGTGTTCTTTCCCAAGAGTATCAAAGGAAAG  
 AATCAAATTTCTTGCCCGTCACTGGCACTCCAGAAGACAGCGTGCCGGAACCGGAGCT  
 CTCACCTTTCTGTGACTTGTTCGGAATTAACCTCTGATGGAACTTCCATCTTACTT  
 GGTTACATCACGGCTCTGGTTCAGATACAACCTCATGATTTTGTACTATCATTTTTTAC  
 TTTTCAAAGAATTAACCTATTTTACAGCAGTTCACTTCTGCTAGTGAGTAGTTTTCTC  
 TCCTACCTTCTTCTAAAAACCTGATTTCATGCACAGCGTTTGCACACATGGAGTCTGCC  
 AGTGTGCCTTCTGCTTCAGACAAGAGATCTGCCATTTTCATGCCCTTGTGACTACCTAT  
 CATTGGCCCTGCAATAAAATCATTATTTTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001040451  
**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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001040451.1</a></u> , <u><a href="#">NP_001035541.1</a></u>
<b>RefSeq Size:</b>	2628 bp
<b>RefSeq ORF:</b>	1803 bp
<b>Locus ID:</b>	80230
<b>UniProt ID:</b>	<u><a href="#">Q96T51</a></u>
<b>Cytogenetics:</b>	5q35.3
<b>Protein Pathways:</b>	Endocytosis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) 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.</p>